

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 25.02.2019  
Print date: 27.06.2019

Version: 2.0  
Replaces version: 1.1

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

### 1.1. Product identifier

Trade name: **Bilpron**

### 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 for the decontamination and prevention of biofilm formation in procedural water lines of medical and dental units.  
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](mailto:alpro@alpro-medical.de)  
Internet: [www.alpro-medical.com](http://www.alpro-medical.com)

E-mail address for the competent person responsible for the safety data sheet: [doku@alpro-medical.de](mailto: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]

The mixture is not classified as hazardous in the sense of Regulation (EC) No 1272/2008 [CLP].

### 2.2. Label elements

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

The mixture does not require labelling in the sense of Regulation (EC) No 1272/2008 [CLP].

Hazard pictograms: -  
Signal word: -  
Hazard components for labelling: -  
H-phrases: -

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P-phrases: -

## 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 propylene glycol, parabens, biguanides and complexing agents in aqueous solution.

#### Hazardous ingredients

Does not contain hazardous ingredients above concentration limit values fixed in Regulation (EC) No 1907/2006.

## 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

The product contains a source of phenylalanine.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO<sub>2</sub>)

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<sub>2</sub>)

### 5.3. Advice for firefighters

Special protective equipment: Not necessary

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.  
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

Not necessary

#### 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.

Advice on common storage: Not necessary

Further information on storage conditions: Recommended storage temperature: -10 °C – 30 °C

Storage class ([DE] TRGS 510): LGK 12 Non-combustible liquids that are not assigned to any of the aforementioned LGK

### 7.3. Specific end use(s)

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

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## 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

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### 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

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: clear, blue liquid

Odour: characteristic

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Odour threshold:	no data available	
pH (undiluted):	5.5 – 6.5	(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:	0.995 – 1.005	(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:	1.3355-1.3370	(20 °C)
Electrical conductivity (undiluted):	920-1020 µS/cm	(20 °C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored as intended.

### 10.2. Chemical stability

The product is stable when handled and stored as intended.

### 10.3. Possibility of hazardous reactions

None known

### 10.4. Conditions to avoid

None known

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

Does not decompose when used as intended.

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## 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.

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## 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 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 10 02 aqueous liquid wastes other than those mentioned in 16 10 01

#### Disposal of the packaging

Waste codes / waste designations according to EWC

Contaminated packaging: 15 01 02 plastic packaging

Recommendation

Contaminated packaging must be emptied optimally and can be recycled.

## SECTION 14: Transport information

### 14.0. Transport classification

No 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

-

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**14.2. UN proper shipping name**

-

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

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

-

**14.8. Further information**

-

**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  
not applicable



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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

-

#### H-phrases (Hazard statements)

-

### 16.2. Abbreviations and acronyms

ADN	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par voie de <u>n</u> avigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par <u>r</u> oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BGR	<u>B</u> erufsgenossenschaftliche <u>R</u> egeln (English: Employers' liability insurance association rules)
BS	<u>B</u> ritish <u>S</u> tandards
CLP	Regulation on <u>C</u> lassification, <u>L</u> abelling and <u>P</u> ackaging of Substances and Mixtures
[DE]	National German regulations
DGUV	<u>D</u> eutsche <u>G</u> esetzliche <u>U</u> nfall <u>v</u> ersicherung (English: German statutory accident insurance)
EC	<u>E</u> uropean <u>C</u> ommunity
EEC	<u>E</u> uropean <u>E</u> conomic <u>C</u> ommunity
EN	European Standard
EU	<u>E</u> uropean <u>U</u> nion
EWC	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
GHS	<u>G</u> lobally <u>H</u> armonized <u>S</u> ystem of Classification, Labelling and Packaging of Chemicals
GMBI	<u>G</u> emeinsames <u>M</u> inisterial <u>b</u> latt (English: Joint Ministerial Gazette)
IATA-DGR	<u>I</u> nternational <u>A</u> ir <u>T</u> ransport <u>A</u> ssociation - <u>D</u> angerous <u>G</u> oods <u>R</u> egulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG-Code	<u>I</u> nternational <u>M</u> aritime <u>C</u> ode for <u>D</u> angerous <u>G</u> oods
LGK	<u>L</u> ager <u>k</u> lasse (English: Storage class)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
OECD	<u>O</u> rganization for <u>E</u> conomic <u>C</u> o-operation and <u>D</u> evelopment
PBT	<u>P</u> ersistent, <u>b</u> ioaccumulative and <u>t</u> oxic
REACH	<u>R</u> egistration, <u>E</u> valuation, <u>A</u> uthorisation and Restriction of <u>C</u> hemicals
RID	<u>R</u> èglement concernant le transport <u>I</u> nternational ferroviaire de marchandises <u>D</u> angereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
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	<u>U</u> nited <u>N</u> ations

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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); [http://echa.europa.eu/documents/10162/13643/sds\\_en.pdf](http://echa.europa.eu/documents/10162/13643/sds_en.pdf)
- GISBAU (Hazardous substances information system of the BG BAU) – course „safety data sheet“; <http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm>
- Regulation (EC) No 1272/2008 (CLP regulation)
- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008 (04/2011); [http://echa.europa.eu/documents/10162/13562/clp\\_labelling\\_en.pdf](http://echa.europa.eu/documents/10162/13562/clp_labelling_en.pdf)
- European Chemicals Agency (ECHA), Registered substances; <http://echa.europa.eu/information-on-chemicals/registered-substances>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents; <http://www.dguv.de/dguv/ifa/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <http://webrigoletto.uba.de/rigoletto>

### 16.4. Training advice

Provide adequate information, instructions and training for users.

### 16.5. Indication of changes

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

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

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# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

Issue/Revision: 27.01.2021

Print date: 01.02.2021

Version: 2.0

Replaces version: 1.0

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

### 1.1. Product identifier

Trade name: **BRS® Activator**

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

Relevant identified uses: Cleaning agent

Intended purpose: BRS® Activator is a component (part II) of the Biofilm-Removing-Set (BRS®) and is used together with BRS® Remover for the main cleaning after the precleaning with BRS® PreCleaner.  
The BRS® Set is used for the basic cleaning of procedural water lines of medical and dental units before using Alpron or Bilpron.

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](mailto:alpro@alpro-medical.de)  
Internet: [www.alpro-medical.com](http://www.alpro-medical.com)

E-mail address for the competent person responsible for the safety data sheet: [doku@alpro-medical.de](mailto: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]

The mixture is not classified as hazardous in the sense of Regulation (EC) No 1272/2008 [CLP].

### 2.2. Label elements

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

The mixture does not require labelling in the sense of Regulation (EC) No 1272/2008 [CLP].

Hazard pictograms: -

Signal word: -

# Safety data sheet

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Hazard components  
for labelling: -

H-phrases: -

P-phrases: -

## 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 surfactants with non-hazardous additions in aqueous solution.

#### Hazardous ingredients

Does not contain hazardous ingredients above concentration limit values fixed in Regulation (EC) No 1907/2006.

## 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 only a few sips of water (foaming product). Do not induce vomiting (risk of aspiration).

### 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<sub>2</sub>)

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<sub>2</sub>)

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## 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

Not necessary

#### 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.

Advice on common storage: Not necessary

Further information on storage conditions: Not necessary

Storage class ([DE] TRGS 510): LGK 12 Non-combustible liquids that are not assigned to any of the aforementioned LGK

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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](http://www.baua.de)
- [DE] DGUV rules 107-002 (former BGR 206) - Disinfection works in health service  
Issue: July 1999; Source: [www.dguv.de/publikationen](http://www.dguv.de/publikationen)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### 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

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

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance:	clear, light green liquid	
Odour:	of tenside	
Odour threshold:	no data available	
pH (undiluted):	8.5 – 9.5	(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:	0.991 – 0.999	(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:	no data available	(... °C)
Electrical conductivity (undiluted):	2000 – 2500 µS/cm	(20 °C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored as intended.

### 10.2. Chemical stability

The product is stable when handled and stored as intended.

### 10.3. Possibility of hazardous reactions

None known

### 10.4. Conditions to avoid

None known

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## 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 data available.

#### Serious eye damage/irritation

Product

No data available.

#### 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 data available.

#### STOT-repeated exposure

Product

No data available.



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## 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 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 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 10 02 aqueous liquid wastes other than those mentioned in 16 10 01

#### Disposal of the packaging

Waste codes / waste designations according to EWC

Contaminated packaging: 15 01 02 plastic packaging

Recommendation

Contaminated packaging must be emptied optimally and can be recycled.

## SECTION 14: Transport information

### 14.0. Transport classification

No dangerous good in sense of the transport regulations in road traffic (ADR), railway traffic (RID), inland waterway traffic (ADN), maritime traffic (IMDG-Code) and air traffic (ICAO-TI/IATA-DGR).

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**14.1. UN number**

-

**14.2. UN proper shipping name**

-

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

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

-

**14.8. Further information**

-

**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

not applicable

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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 H-phrases

#### Hazard classes

-

#### H-phrases (Hazard statements)

-

### 16.2. Abbreviations and acronyms

ADN	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par voie de <u>n</u> avigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par <u>r</u> oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BGR	<u>B</u> erufsgenossenschaftliche <u>R</u> egeln (English: Employers' liability insurance association rules)
BS	<u>B</u> ritish <u>S</u> tandards
CLP	Regulation on <u>C</u> lassification, <u>L</u> abelling and <u>P</u> ackaging of Substances and Mixtures
[DE]	National German regulations
DGUV	<u>D</u> eutsche <u>G</u> esetzliche <u>U</u> nfall <u>v</u> ersicherung (English: German statutory accident insurance)
EC	<u>E</u> uropean <u>C</u> ommunity
EEC	<u>E</u> uropean <u>E</u> conomic <u>C</u> ommunity
EN	European Standard
EU	<u>E</u> uropean <u>U</u> nion
EWC	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
GHS	<u>G</u> lobally <u>H</u> armonized <u>S</u> ystem of Classification, Labelling and Packaging of Chemicals
GMBI	<u>G</u> emeinsames <u>M</u> inisterial <u>bl</u> att (English: Joint Ministerial Gazette)
IATA-DGR	<u>I</u> nternational <u>A</u> ir <u>T</u> ransport <u>A</u> ssociation - <u>D</u> angerous <u>G</u> oods <u>R</u> egulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG-Code	International <u>M</u> aritime Code for <u>D</u> angerous <u>G</u> oods
LGK	<u>L</u> ager <u>k</u> lasse (English: Storage class)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
OECD	<u>O</u> rganization for <u>E</u> conomic <u>C</u> o-operation and <u>D</u> evelopment
PBT	<u>P</u> ersistent, <u>b</u> ioaccumulative and <u>t</u> oxic
REACH	<u>R</u> egistration, <u>E</u> valuation, <u>A</u> uthorisation and Restriction of <u>C</u> hemicals
RID	<u>R</u> èglement concernant le transport <u>I</u> nternational ferroviaire de marchandises <u>D</u> angereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
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	<u>U</u> nited <u>N</u> ations

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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); [http://echa.europa.eu/documents/10162/13643/sds\\_en.pdf](http://echa.europa.eu/documents/10162/13643/sds_en.pdf)
- GISBAU (Hazardous substances information system of the BG BAU) – course „safety data sheet“; <http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm>
- Regulation (EC) No 1272/2008 (CLP regulation)
- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008 (04/2011); [http://echa.europa.eu/documents/10162/13562/clp\\_labelling\\_en.pdf](http://echa.europa.eu/documents/10162/13562/clp_labelling_en.pdf)
- European Chemicals Agency (ECHA), Registered substances; <http://echa.europa.eu/information-on-chemicals/registered-substances>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents; <http://www.dguv.de/dguv/ifa/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <http://webrigoletto.uba.de/rigoletto>

### 16.4. Training advice

Provide adequate information, instructions and training for users.

### 16.5. Indication of changes

A dash in the left hand margin indicates an amendment from the previous version.

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

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

### 1.1. Product identifier

Trade name: **BRS® PreCleaner**

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

Relevant identified uses: Cleaning agent, enzymatic

Intended purpose: BRS® PreCleaner is a component (part I) of the Biofilm-Removing-Set (BRS®) and is used for the precleaning before the main cleaning with BRS® Remover and BRS® Activator (or only with BRS® Remover 3).  
The BRS® is used for the basic cleaning of the procedural water lines in dental treatment units before the use of Alpron or Bilpron. The biofilm and other incrustations are removed thereby.

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](mailto:alpro@alpro-medical.de)  
Internet: [www.alpro-medical.com](http://www.alpro-medical.com)

E-mail address for the competent person responsible for the safety data sheet: [doku@alpro-medical.de](mailto:doku@alpro-medical.de)

### 1.4. Emergency telephone number

In-house emergency telephone number: +49 7725 9392-0  
Monday – Friday from 08:00 am to 04:30 pm (UTC+1);  
for chemical information and legal information on hazardous substances only

Poison centre: +49 761 19240  
Poisoning information centre, Freiburg, Germany  
(24 h / 7 d), English is spoken

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

<i>Classification</i>	<i>Classification procedure</i>
Skin Corr. 1B; H314	Calculation method

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

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## 2.2. Label elements

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

Hazard pictograms:



Signal word:

Danger

Hazard components  
for labelling:

Disodium metasilicate (6834-92-0)

H-phrases: H314

Causes severe skin burns and eye damage.

P-phrases: P260

Do not breathe dust.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/ doctor.

## 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

No further hazards known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical characterisation: Mixture of substances listed below with non-hazardous additions.

#### Hazardous ingredients

Chemical name	Identification numbers	Classification in accordance with Regulation (EC) No 1272/2008	Weight %
Sodium carbonate	CAS No: 497-19-8 EC No: 207-838-8 Index No: 011-005-00-2 REACH Registration No: 01-2119485498-19-XXXX	Eye Irrit. 2; H319	≥ 50
Disodium metasilicate	CAS No: 6834-92-0 EC No: 229-912-9 Index No: 014-010-00-8 REACH Registration No: 01-2119449811-37-XXXX	Skin Corr. 1B; H314 STOT SE 3; H335	≥ 15 - < 20

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

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## 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<sub>2</sub>)

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<sub>2</sub>)

### 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 dust. Avoid formation of dust. Provide adequate ventilation. 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.

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### 6.3. Methods and material for containment and cleaning up

#### Containment

For large spills, cover spilled material with a plastic cover in order to prevent spreading and to keep the powder dry.

#### Cleaning up

Take up mechanically. Avoid formation of dust. 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 formation of dust. 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.

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](http://www.baua.de)

[DE] DGUV rules 107-002 (former BGR 206) - Disinfection works in health service  
Issue: July 1999; Source: [www.dguv.de/publikationen](http://www.dguv.de/publikationen)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Does not contain substances above concentration limits fixing an occupational exposure limit.



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## 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 (&gt; 480 min):</u> Protective gloves made of nitrile rubber (thickness 0.40 mm)
Other skin protection:	Long-sleeved protective clothing (lab coat)
Respiratory protection:	Not necessary when used as intended.
Thermal hazards:	No special protective measures necessary.

### Environmental exposure controls

Do not discharge into drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance:	reddish, granular powder
Odour:	characteristic
Odour threshold:	no data available
pH (5 g/l H <sub>2</sub> O):	11.5 – 12.5 (20 °C)
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flash point:	not applicable
Evaporation rate:	not applicable
Flammability (solid, gas):	no data available

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Lower explosive limit:	not applicable	
Upper explosive limit:	not applicable	
Vapour pressure:	not applicable	
Vapour density:	not applicable	
Relative density:	no data available	(... °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:	1.3330-1.3343	(20 °C)
Electrical conductivity (5 g/l H <sub>2</sub> O):	5000-6000 µS/cm	(20 °C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored as intended.

### 10.2. Chemical stability

The product is stable when handled and stored as intended.

### 10.3. Possibility of hazardous reactions

None known

### 10.4. Conditions to avoid

None known

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

Does not decompose when used as intended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

##### Product

Acute toxicity - oral:	Acute Toxicity Estimate ATE <sub>mix</sub> > 2000 mg/kg => no classification
Acute toxicity - dermal:	Acute Toxicity Estimate ATE <sub>mix</sub> > 2000 mg/kg => no classification

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

## Ingredients

Disodium metasilicate (CAS No: 6834-92-0):

Acute toxicity - oral:  $LD_{50}$ : 1152 mg/kg; species: rat; ECHA: oral.001

## 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 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

Disodium metasilicate (CAS No: 6834-92-0):

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]

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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 organic ingredients.

Sodium carbonate and disodium metasilicate as inorganic substances are not subject to biodegradation.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

### 12.6. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal of the product

Product residues must be disposed of as hazardous waste in compliance with the Directive 2008/98/EC on waste as well as national and regional regulations. Do not dispose of via the waste water. Leave product in the original container as possible. Do not mix with other waste materials.

Waste codes / waste designations according to EWC

Product residues: 07 06 99\* wastes not otherwise specified

#### 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 3253

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**

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## 14.2. UN proper shipping name

### ADR/RID/ADN

DISODIUM TRIOXOSILICATE

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

DISODIUM TRIOXOSILICATE

## 14.3. Transport hazard class(es)

Class: 8

Subsidiary risk(s): -

## 14.4. Packing group

III

## 14.5. Environmental hazards

### ADR/RID/ADN

Environmentally Hazardous: No

### IMDG-Code

Marine Pollutant: No

## 14.6. Special precautions for user

Not necessary.

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## 14.8. Further information

Transport category according to ADR section 1.1.3.6: 3

Maximum total quantity per transport unit according to ADR section 1.1.3.6: 1000 kg

Limited quantity (Maximum quantity per inner packaging) according to ADR/RID/ADN/IMDG-Code: 5 kg

Classification code according to ADR/RID/ADN: C6

Hazard identification number according to ADR/RID: 80

Tunnel restriction code according to ADR/RID: E

Segregation group according to IMDG-Code section 5.4.1.5.11.1: IMDG-Code- Segregation group 18 – alkalis

EmS codes: F-A, S-B

## SECTION 15: Regulatory information

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

#### EU-Regulations

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

not applicable

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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.

## SECTION 16: Other information

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

#### Hazard classes

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

#### H-phrases (Hazard statements)

H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### 16.2. Abbreviations and acronyms

ADN	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par voie de <u>n</u> avigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par <u>r</u> oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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BGR	<u>B</u> erufsgenossenschaftliche <u>R</u> egeln (English: Employers' liability insurance association rules)
BS	<u>B</u> ritish <u>S</u> tandards
CAS	<u>C</u> hemical <u>A</u> bstracts <u>S</u> ervice
CLP	Regulation on <u>C</u> lassification, <u>L</u> abelling and <u>P</u> ackaging of Substances and Mixtures
[DE]	National German regulations
DGUV	<u>D</u> eutsche <u>G</u> esetzliche <u>U</u> nfallversicherung (English: German statutory accident insurance)
EC	<u>E</u> uropean <u>C</u> ommunity
EEC	<u>E</u> uropean <u>E</u> conomic <u>C</u> ommunity
EmS	<u>E</u> mergency <u>S</u> chedules (Emergency response procedures for ships carrying dangerous goods)
EN	European Standard
EU	<u>E</u> uropean <u>U</u> nion
EWC	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
GHS	<u>G</u> lobally <u>H</u> armonized <u>S</u> ystem of Classification, Labelling and Packaging of Chemicals
GMBI	<u>G</u> emeinsames <u>M</u> inisterial <u>b</u> latt (English: Joint Ministerial Gazette)
IATA-DGR	<u>I</u> nternational <u>A</u> ir <u>T</u> ransport <u>A</u> ssociation - <u>D</u> angerous <u>G</u> oods <u>R</u> egulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG-Code	International <u>M</u> aritime Code for <u>D</u> angerous <u>G</u> oods
LD <sub>50</sub>	Median lethal dose
LGK	<u>L</u> agerklasse (English: Storage class)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
OECD	<u>O</u> rganization for <u>E</u> conomic <u>C</u> o-operation and <u>D</u> evelopment
PBT	<u>P</u> ersistent, <u>b</u> ioaccumulative and <u>t</u> oxic
REACH	<u>R</u> egistration, <u>E</u> valuation, <u>A</u> uthorisation and Restriction of <u>C</u> hemicals
RID	<u>R</u> èglement concernant le transport <u>I</u> nternational ferroviaire de marchandises <u>D</u> angereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
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	<u>U</u> nited <u>N</u> ations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
vPvB	<u>V</u> ery <u>p</u> ersistent and <u>v</u> ery <u>b</u> ioaccumulative

## 16.3. Key literature references and sources for data

- Regulation (EC) No 1907/2006 (REACH), Annex II
- European Chemicals Agency (ECHA) – Guidance on the compilation of safety data sheets; Version 2.1 (February 2014); [http://echa.europa.eu/documents/10162/13643/sds\\_en.pdf](http://echa.europa.eu/documents/10162/13643/sds_en.pdf)
- GISBAU (Hazardous substances information system of the BG BAU) – course „safety data sheet“; <http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm>
- Regulation (EC) No 1272/2008 (CLP regulation)
- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008 (04/2011); [http://echa.europa.eu/documents/10162/13562/clp\\_labelling\\_en.pdf](http://echa.europa.eu/documents/10162/13562/clp_labelling_en.pdf)
- European Chemicals Agency (ECHA), Registered substances; <http://echa.europa.eu/information-on-chemicals/registered-substances>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents; <http://www.dguv.de/dguv/ifa/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <http://webriigoletto.uba.de/rigoletto>

**Safety data sheet**  
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**16.4. Training advice**

Provide adequate information, instructions and training for users.

**16.5. Indication of changes**

A dash in the left hand margin indicates an amendment from the previous version.

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

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# Safety data sheet

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Trade name: **BRS® Remover**

Issue/Revision: 01.02.2021

Print date: 04.02.2021

Version: 2.0

Replaces version: 1.0

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

### 1.1. Product identifier

Trade name: **BRS® Remover**

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

Relevant identified uses: Cleaning agent

Intended purpose: BRS® Remover is a component (part II) of the Biofilm-Removing-Set (BRS®) and is used together with BRS® Activator for the main cleaning after the precleaning with BRS® PreCleaner.  
The BRS® is used for the basic cleaning of procedural water lines of medical and dental units before using Alpron or Bilpron.

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](mailto:alpro@alpro-medical.de)  
Internet: [www.alpro-medical.com](http://www.alpro-medical.com)

E-mail address for the competent person responsible for the safety data sheet: [doku@alpro-medical.de](mailto:doku@alpro-medical.de)

### 1.4. Emergency telephone number

In-house emergency telephone number: +49 7725 9392-0  
Monday – Friday from 08:00 am to 04:30 pm (UTC+1);  
for chemical information and legal information on hazardous substances only

Poison centre: +49 761 19240  
Poisoning information centre, Freiburg, Germany  
(24 h / 7 d), English is spoken

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

<i>Classification</i>	<i>Classification procedure</i>
Eye Irrit. 2; H319	Calculation method

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

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## 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: H319

Causes serious eye irritation.

P-phrases: 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.

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.

#### Hazardous ingredients

Chemical name	Identification numbers	Classification in accordance with Regulation (EC) No 1272/2008	Weight %
Citric acid	CAS No: 77-92-9 EC No: 201-069-1 REACH Registration No: 01-2119457026-42-XXXX	Eye Irrit. 2; H319	≥ 50

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.

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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<sub>2</sub>)

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<sub>2</sub>)

#### 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 dust. Avoid formation of dust. Provide adequate ventilation.

##### 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, cover spilled material with a plastic cover in order to prevent spreading and to keep the powder dry.

##### Cleaning up

Take up mechanically. Avoid formation of dust. Collect in suitable, closed containers for disposal. Clean contaminated surfaces thoroughly.

##### Other information

Inappropriate containment and cleaning methods are not known.

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### 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 formation of dust. 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.

Advice on common storage: Not necessary

Further information on storage conditions: Not necessary

Storage class ([DE] TRGS 510): LGK 11 Combustible solids that cannot be assigned to any of the above storage classes

### 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](http://www.baua.de)

[DE] DGUV rules 107-002 (former BGR 206) - Disinfection works in health service  
Issue: July 1999; Source: [www.dguv.de/publikationen](http://www.dguv.de/publikationen)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### 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

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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 are recommended <u>Splash guard:</u> Disposable gloves made of nitrile rubber (thickness 0.11 mm) <u>Permanent contact (&gt; 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:	light blue powder
Odour:	characteristic
Odour threshold:	no data available
pH (80 g/l H <sub>2</sub> O):	1.5 – 2.0 (20 °C)
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flash point:	not applicable
Evaporation rate:	not applicable
Flammability (solid, gas):	no data available
Lower explosive limit:	not applicable
Upper explosive limit:	not applicable
Vapour pressure:	not applicable
Vapour density:	not applicable
Relative density:	no data available (... °C)
Solubility in water:	completely soluble
Partition coefficient: n-octanol/water	not applicable

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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 (80 g/l H <sub>2</sub> O):	1.3418 – 1.3433	(20 °C)
Electrical conductivity (80 g/l H <sub>2</sub> O):	6000 – 6500 µS/cm	(20 °C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored as intended.

### 10.2. Chemical stability

The product is stable when handled and stored as intended.

### 10.3. Possibility of hazardous reactions

None known

### 10.4. Conditions to avoid

None known

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

Does not decompose when used as intended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Product

Acute toxicity - oral: Acute Toxicity Estimate ATE<sub>mix</sub> > 2000 mg/kg  
=> no classification

Acute toxicity - dermal: Acute Toxicity Estimate ATE<sub>mix</sub> > 2000 mg/kg  
=> no classification

Acute toxicity - inhalation: Acute Toxicity Estimate ATE<sub>mix</sub> > 20 mg/l  
=> no classification

#### Skin corrosion/irritation

Product

No data available.

#### Serious eye damage/irritation

Product

Causes serious eye irritation. [calculation method]

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## 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 data available.

## 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.

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## 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 03 05\* organic wastes 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

No 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

-

### 14.2. UN proper shipping name

-

### 14.3. Transport hazard class(es)

-

### 14.4. Packing group

-

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

-

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

-

### 14.8. Further information

-



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## 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

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 code letters, hazard classes, R- and H-phrases

#### Hazard classes

Eye Irrit.

Eye irritation

#### H-phrases (Hazard statements)

H319

Causes serious eye irritation.

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## 16.2. Abbreviations and acronyms

ADN	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par voie de <u>n</u> avigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par <u>r</u> oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BGR	<u>B</u> erufsgenossenschaftliche <u>R</u> egeln (English: Employers' liability insurance association rules)
BS	<u>B</u> ritish <u>S</u> tandards
CAS	<u>C</u> hemical <u>A</u> bstracts <u>S</u> ervice
CLP	Regulation on <u>C</u> lassification, <u>L</u> abelling and <u>P</u> ackaging of Substances and Mixtures
[DE]	National German regulations
DGUV	<u>D</u> eutsche <u>G</u> esetzliche <u>U</u> nfall <u>v</u> ersicherung (English: German statutory accident insurance)
EC	<u>E</u> uropean <u>C</u> ommunity
EEC	<u>E</u> uropean <u>E</u> conomic <u>C</u> ommunity
EN	European Standard
EU	<u>E</u> uropean <u>U</u> nion
EWC	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
GHS	<u>G</u> lobally <u>H</u> armonized <u>S</u> ystem of Classification, Labelling and Packaging of Chemicals
GMBI	<u>G</u> emeinsames <u>M</u> inisterial <u>bl</u> att (English: Joint Ministerial Gazette)
IATA-DGR	<u>I</u> nternational <u>A</u> ir <u>T</u> ransport <u>A</u> ssociation - <u>D</u> angerous <u>G</u> oods <u>R</u> egulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG-Code	<u>I</u> nternational <u>M</u> aritime Code for <u>D</u> angerous <u>G</u> oods
LGK	<u>L</u> ager <u>k</u> lasse (English: Storage class)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
OECD	<u>O</u> rganization for <u>E</u> conomic <u>C</u> o-operation and <u>D</u> evelopment
PBT	<u>P</u> ersistent, <u>b</u> ioaccumulative and <u>t</u> oxic
REACH	<u>R</u> egistration, <u>E</u> valuation, <u>A</u> uthorisation and Restriction of <u>C</u> hemicals
RID	<u>R</u> èglement concernant le transport <u>I</u> nternational ferroviaire de marchandises <u>D</u> angereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
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	<u>U</u> nited <u>N</u> ations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
vPvB	<u>V</u> ery <u>p</u> ersistent and <u>v</u> ery <u>b</u> ioaccumulative

## 16.3. Key literature references and sources for data

- Regulation (EC) No 1907/2006 (REACH), Annex II
- European Chemicals Agency (ECHA) – Guidance on the compilation of safety data sheets; Version 2.1 (February 2014); [http://echa.europa.eu/documents/10162/13643/sds\\_en.pdf](http://echa.europa.eu/documents/10162/13643/sds_en.pdf)
- GISBAU (Hazardous substances information system of the BG BAU) – course „safety data sheet“; <http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm>
- Regulation (EC) No 1272/2008 (CLP regulation)
- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008 (04/2011); [http://echa.europa.eu/documents/10162/13562/clp\\_labelling\\_en.pdf](http://echa.europa.eu/documents/10162/13562/clp_labelling_en.pdf)
- European Chemicals Agency (ECHA), Registered substances; <http://echa.europa.eu/information-on-chemicals/registered-substances>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents; <http://www.dguv.de/dguv/ifa/index.jsp>

**Safety data sheet**  
according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover**

Issue/Revision: 01.02.2021

Print date: 04.02.2021

Version: 2.0

Replaces version: 1.0

- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <http://webrigoletto.uba.de/rigoletto>

**16.4. Training advice**

Provide adequate information, instructions and training for users.

**16.5. Indication of changes**

A dash in the left hand margin indicates an amendment from the previous version.

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

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# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **Alpron**  
Issue/Revision: 08.03.2019  
Print date: 03.06.2019

Version: 2.0  
Replaces version: 1.1

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

### 1.1. Product identifier

Trade name: **Alpron**

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

Relevant identified uses: Cleaning and disinfecting agent  
Intended purpose: Liquid concentrate for the continuous maintenance of the water quality in procedural water lines (including instruments and tumbler filler) of medical and dental units.  
Uses advised against: None at intended use.  
Note: The product is intended for professional users.

### 1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier: ALPRO MEDICAL GMBH  
Mooswiesenstraße 9  
D-78112 St. Georgen (Germany)  
Telephone: +49 7725 9392-0  
Telefax: +49 7725 9392-91  
E-mail: alpro@alpro-medical.de  
Internet: www.alpro-medical.com

E-mail address for the competent person responsible for the safety data sheet: doku@alpro-medical.de

### 1.4. Emergency telephone number

In-house emergency telephone number: +49 7725 9392-0  
Monday – Friday from 08:00 am to 04:30 pm (UTC+1);  
for chemical information and legal information on hazardous substances only  
Poison centre: +49 761 19240  
Poisoning information centre, Freiburg, Germany  
(24 h / 7 d), English is spoken

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

<i>Classification</i>	<i>Classification procedure</i>
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

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

Hazard pictograms: -  
Signal word: -  
Hazard components for labelling: -

# Safety data sheet

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Trade name: **Alpron**

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Print date: 03.06.2019

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H-phrases: H412 The concentrate is harmful to aquatic life with long lasting effects.  
EUH-phrases: EUH208 Contains polyhexamethylenebiguanidehydrochloride. The concentrate may produce an allergic reaction.  
P-phrases: -

## 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 edetic acid, biguanide, tosylchloramide sodium, scents and flavouring substances in aqueous solution.

#### Hazardous ingredients

Chemical name	Identification numbers	Classification in accordance with Regulation (EC) No 1272/2008	Weight %
Disodium dihydrogen-ethylenediaminetetraacetate	CAS No: 139-33-3 EC No: 205-358-3 REACH Registration No: 01-2119486775-20-XXXX	Acute Tox. 4; H332	≥ 1 - < 5
Guanidine, N,N''-1,3-propanediyl-bis-, N-coco alkyl derivatives	CAS No: 98246-84-5 EC No: 308-757-1	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400	< 0.2
Polyhexamethylenebiguanidehydrochloride	CAS No: 1802181-67-4 (32289-58-0)	Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT SE 3; H335 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <i>M-Factor acute: 10</i> <i>M-Factor chronic: 10</i>	< 0.2
Tosylchloramide-sodium	CAS No: 7080-50-4	Acute Tox. 4; H302 Skin Corr. 1B; H314 Resp. Sens. 1; H334 EUH031	< 0.2

Full text of hazard classes, H- and EUH-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: Supply fresh air. In case of complaints consult a physician.  
Following skin contact: By way of precaution, wash skin with water and soap. In case of skin reactions, consult a physician.

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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

The product contains a source of phenylalanine.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO<sub>2</sub>)

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<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), hydrogen chloride (HCl), chlorine (Cl<sub>2</sub>) and chlorine dioxide (ClO<sub>2</sub>)

#### 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.

Avoid skin and eye contact. Special danger of slipping by leaked/spilled product.

##### For emergency responders

Use personal protective equipment. See SECTION 8.2.

#### 6.2. Environmental precautions

Do not discharge into drains or rivers.

#### 6.3. Methods and material for containment and cleaning up

##### Containment

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

##### Cleaning up

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

##### Other information

Inappropriate containment and cleaning methods are not known.

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## 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.

Advice on common storage: Not necessary

Further information on storage conditions: Recommended storage temperature: 5 °C – 30 °C  
Protect from frost and light.

Storage class ([DE] TRGS 510): LGK 12 Non-combustible liquids that are not assigned to any of the aforementioned LGK

### 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](http://www.baua.de)

[DE] DGUV rules 107-002 (former BGR 206) - Disinfection works in health service  
Issue: July 1999; Source: [www.dguv.de/publikationen](http://www.dguv.de/publikationen)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### 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

# Safety data sheet

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Trade name: **Alpron**  
Issue/Revision: 08.03.2019  
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Version: 2.0  
Replaces version: 1.1

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

No special protective measures necessary.

### Personal protective equipment

Eye/face protection: Safety glasses with side protection according to EN 166 are recommended

Skin protection:

Hand protection: Protective gloves according to EN 374 are recommended  
Splash guard:  
Disposable gloves made of nitrile rubber (thickness 0.11 mm)  
Permanent contact (> 480 min):  
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, yellowish liquid	
Odour:	of mint	
Odour threshold:	no data available	
pH (undiluted):	5.0 – 6.0	(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:	1.015 – 1.025	(20 °C)
Solubility in water:	completely soluble	



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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:	1.3447-1.3463	(20 °C)
Electrical conductivity (undiluted):	13.50-14.50 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

### 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 <sub>mix</sub> > 2000 mg/kg => no classification
Acute toxicity - dermal:	Acute Toxicity Estimate ATE <sub>mix</sub> > 2000 mg/kg => no classification
Acute toxicity - inhalation:	Acute Toxicity Estimate ATE <sub>mix</sub> > 20 mg/l => no classification

##### Ingredients

#### Disodium dihydrogenethylenediaminetetraacetate (CAS No: 139-33-3):

Acute toxicity - inhalation: LC<sub>50</sub>: 1000 – 5000 mg/m<sup>3</sup>; species: rat; 6 h; method: OECD 403

#### Guanidine, N,N''-1,3-propanediyl-bis-, N-coco alkyl derivatives (CAS No: 98246-84-5):

Acute toxicity - oral: LD<sub>50</sub>: 500 - 2000 mg/kg; species: rat

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Polyhexamethylenebiguanidehydrochloride (CAS No: 1802181-67-4):

Acute toxicity - inhalation: LC<sub>50</sub>: 1.61 mg/l; species: rat; method: OECD 403

## **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.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Harmful to aquatic life with long lasting effects. [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.

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## 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 01\* aqueous liquid wastes 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

No 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

-

### 14.2. UN proper shipping name

-

### 14.3. Transport hazard class(es)

-

### 14.4. Packing group

-

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## 14.5. Environmental hazards

-

## 14.6. Special precautions for user

-

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

-

## 14.8. Further information

-

## 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  
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
Eye Dam.	Serious eye damage
Resp. Sens.	Respiratory sensitization
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity (single exposure)

#### H-phrases (Hazard statements)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
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.

#### EUH-phrases (Supplemental hazard information and label elements)

EUH031	Contact with acids liberates toxic gas.
--------	---

### 16.2. Abbreviations and acronyms

ADN	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par voie de <u>n</u> avigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par <u>r</u> oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BGR	<u>B</u> erufsgenossenschaftliche <u>R</u> egeln (English: Employers' liability insurance association rules)
BS	<u>B</u> ritish <u>S</u> tandards
CAS	<u>C</u> hemical <u>A</u> bstracts <u>S</u> ervice
CLP	Regulation on <u>C</u> lassification, <u>L</u> abelling and <u>P</u> ackaging of Substances and Mixtures
[DE]	National German regulations
DGUV	<u>D</u> eutsche <u>G</u> esetzliche <u>U</u> nfall <u>v</u> ersicherung (English: German statutory accident insurance)
EC	<u>E</u> uropean <u>C</u> ommunity
EEC	<u>E</u> uropean <u>E</u> conomic <u>C</u> ommunity
EN	European Standard
EU	<u>E</u> uropean <u>U</u> nion
EWC	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
GHS	<u>G</u> lobally <u>H</u> armonized <u>S</u> ystem of Classification, Labelling and Packaging of Chemicals
GMBl	<u>G</u> emeinsames <u>M</u> inisterial <u>b</u> latt (English: Joint Ministerial Gazette)
IATA-DGR	<u>I</u> nternational <u>A</u> ir <u>T</u> ransport <u>A</u> ssociation - <u>D</u> angerous <u>G</u> oods <u>R</u> egulations

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IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG-Code	International Maritime Code for Dangerous Goods
LC <sub>50</sub>	Median lethal concentration
LD <sub>50</sub>	Median lethal dose
LGK	Lagerklasse (English: Storage class)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
OECD	Organization for Economic Co-operation and Development
PBT	Persistent, bioaccumulative and toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
TRGS	Technische Regeln für Gefahrstoffe (English: Technical Rules for Hazardous Substances)
UN	United Nations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
vPvB	Very persistent and very bioaccumulative

### 16.3. Key literature references and sources for data

- Regulation (EC) No 1907/2006 (REACH), Annex II
- European Chemicals Agency (ECHA) – Guidance on the compilation of safety data sheets; Version 2.1 (February 2014); [http://echa.europa.eu/documents/10162/13643/sds\\_en.pdf](http://echa.europa.eu/documents/10162/13643/sds_en.pdf)
- GISBAU (Hazardous substances information system of the BG BAU) – course „safety data sheet“; <http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm>
- Regulation (EC) No 1272/2008 (CLP regulation)
- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008 (04/2011); [http://echa.europa.eu/documents/10162/13562/clp\\_labelling\\_en.pdf](http://echa.europa.eu/documents/10162/13562/clp_labelling_en.pdf)
- European Chemicals Agency (ECHA), Registered substances; <http://echa.europa.eu/information-on-chemicals/registered-substances>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents; <http://www.dguv.de/dguv/ifa/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <http://webrigoletto.uba.de/rigoletto>

### 16.4. Training advice

Provide adequate information, instructions and training for users.

### 16.5. Indication of changes

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

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

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# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BC-San 100**

Issue/Revision: 08.12.2020

Print date: 12.01.2021

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: **BC-San 100**

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

Relevant identified uses: Disinfecting agent

Intended purpose: Solution for the virucidal final disinfection of surfaces of medical devices, such as light guides, polymerisation lamps, heads of intraoral cameras/scanners, as well as for the disinfection/processing of wipe dispenser boxes and pressure cylinders (1 - 1.5 L) of stand-alone procedural water supply systems such as the ALPRO-BCS (BottleCareSystem).

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](mailto:alpro@alpro-medical.de)  
Internet: [www.alpro-medical.com](http://www.alpro-medical.com)

E-mail address for the competent person responsible for the safety data sheet: [doku@alpro-medical.de](mailto:doku@alpro-medical.de)

### 1.4. Emergency telephone number

In-house emergency telephone number: +49 7725 9392-0  
Monday – Friday from 08:00 am to 04:30 pm (UTC+1);  
for chemical information and legal information on  
hazardous substances only

Poison centre: +49 761 19240  
Poisoning information centre, Freiburg, Germany  
(24 h / 7 d), English is spoken

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

<i>Classification</i>	<i>Classification procedure</i>
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.

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Trade name: **BC-San 100**

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## 2.2. Label elements

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

Hazard pictograms:



Signal word:

Warning

Hazard components for labelling:

Sodium hypochlorite solution with 1 - 2 % active chlorine

H-phrases: H315  
H319  
H412

Causes skin irritation.  
Causes serious eye irritation.  
Harmful to aquatic life with long lasting effects.

P-phrases: P280  
P305+P351+P338  
P337+P313

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.  
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 %
Sodium hypochlorite	CAS No: 7681-52-9 EC No: 231-668-3 Index No: 017-011-00-1 REACH Registration No: 01-2119488154-34-XXXX	Met. Corr. 1; H290 Skin Corr. 1B; H314 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH031  <i>M-Factor acute: 10</i> <i>M-Factor chronic: 1</i>  <i>Specific concentration limits</i> EUH031: C ≥ 5 %  <i>(further specific concentration limits: see ECHA -&gt; Registered substances)</i>	≥ 1 - < 2

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures



# Safety data sheet

according to Regulation (EC) No 1907/2006



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General information:	First aider: Pay attention to self-protection!
Following inhalation:	Move affected person into fresh air and keep still and warm. In case of continued complaints seek medical advice.
Following skin contact:	Wash skin immediately with plenty of water and soap. In case of skin reactions, consult a physician.
Following eye contact:	Flush eyes immediately with flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Consult an ophthalmologist.
Following ingestion:	Rinse mouth with water. Let drink plenty of water. Do not induce vomiting. Consult a physician immediately.

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

Causes skin irritation. Causes serious eye irritation.

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

No information available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media: Full water jet

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

Hazardous combustion products: Hydrogen chloride (HCl), chlorine (Cl<sub>2</sub>) and chlorine dioxide (ClO<sub>2</sub>)

#### 5.3. Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus.

Further information: Cool endangered containers with water spray jet.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Use personal protective equipment. See SECTION 8.2.

Avoid skin and eye contact. Do not breathe vapours. Provide adequate ventilation. Special danger of slipping by leaked/spilled product. Evacuate danger area. Observe emergency plans. Consult experts.

##### For emergency responders

Use personal protective equipment. See SECTION 8.2.

#### 6.2. Environmental precautions

Do not discharge into drains or rivers.

#### 6.3. Methods and material for containment and cleaning up

##### Containment

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

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### Cleaning up

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

### Other information

Inappropriate containment and cleaning methods are not known.

## 6.4. Reference to other sections

Information on safe handling see SECTION 7.1.

Information on personal protective equipment see SECTION 8.2.

Information on disposal see SECTION 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Precautions

Avoid contact with skin and eyes. Avoid breathing aerosols and vapours. Keep container tightly closed.

#### 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: Protect from heat and direct sunlight.

Storage class ([DE] TRGS 510): LGK 12 Non-combustible liquids that are not assigned to any of the aforementioned LGK

### 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](http://www.baua.de)

[DE] DGUV rules 107-002 (former BGR 206) - Disinfection works in health service  
Issue: July 1999; Source: [www.dguv.de/publikationen](http://www.dguv.de/publikationen)

**Safety data sheet**  
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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

Country	Limit values				Legal basis	Remarks
	Long term (8 hours)		Short term (15 minutes)			
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Chlorine (CAS No: 7782-50-5) as decomposition product of sodium hypochlorite						
EU	-	-	0.5	1.5	2006/15/EC	-
UK	-	-	0.5	1.5	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) 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

Splash guard:

Disposable gloves made of nitrile rubber (thickness 0.11 mm)

Permanent contact (> 480 min):

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.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance:	clear, yellowish liquid	
Odour:	of chlorine	
Odour threshold:	no data available	
pH (undiluted):	11.5 – 12.5	(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:	1.015 – 1.020	(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 n <sub>D</sub> :	1.3374-1.3380	(20 °C)
Electrical conductivity (undiluted):	35-40 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 relatively stable when handled and stored as intended. A small amount of sodium hypochlorite decomposes even at room temperature with release of oxygen.

### 10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

### 10.4. Conditions to avoid

Heat, direct sunlight

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## 10.5. Incompatible materials

Acids, oxidants

## 10.6. Hazardous decomposition products

Chlorine (Cl<sub>2</sub>), hydrogen chloride (HCl), chlorine dioxide (ClO<sub>2</sub>)

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Product

Acute toxicity - oral:	Acute Toxicity Estimate ATE <sub>mix</sub> > 2000 mg/kg => no classification
Acute toxicity - dermal:	Acute Toxicity Estimate ATE <sub>mix</sub> > 2000 mg/kg => no classification
Acute toxicity - inhalation:	Acute Toxicity Estimate ATE <sub>mix</sub> > 20 mg/l => no classification

#### 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.

#### Reproductive toxicity

Product

No data available.

#### STOT-single exposure

Product

No classification. [calculation method]

Ingredients

Sodium hypochlorite (CAS No: 7681-52-9):  
May cause respiratory irritation.

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## STOT-repeated exposure

Product

No data available.

## Aspiration hazard

Product

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

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

### 12.2. Persistence and degradability

Biodegradability:

The criteria of biodegradability are not applicable on inorganic ingredients.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

### 12.6. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal of the product

Product residues must be disposed of as hazardous waste in compliance with the Directive 2008/98/EC on waste as well as national and regional regulations. Do not dispose of via the waste water. Leave product in the original container as possible. Do not mix with other waste materials.

Waste codes / waste designations according to EWC

Product residues: 16 10 03\* aqueous concentrates containing hazardous substances

#### Disposal of the packaging

Packaging contaminated with product is considered as hazardous waste and must be disposed of accordingly.

Waste codes / waste designations according to EWC

Contaminated packaging: 15 01 10\* packaging containing residues of or contaminated by hazardous substances

Recommendation

Contaminated packaging must be emptied optimally and can be recycled after appropriate cleaning (rinse with water).

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## SECTION 14: Transport information

### 14.0. Transport classification

No 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

-

### 14.2. UN proper shipping name

-

### 14.3. Transport hazard class(es)

-

### 14.4. Packing group

-

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

-

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

-

### 14.8. Further information

-

## 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

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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

Aquatic Acute	Acute aquatic hazard
Aquatic Chronic	Long-term aquatic hazard
Eye Irrit.	Eye irritation
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)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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.

#### EUH-phrases (Supplemental hazard information and label elements)

EUH031	Contact with acids liberates toxic gas.
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### 16.2. Abbreviations and acronyms

ADN	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par voie de <u>n</u> avigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par <u>r</u> oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BGR	<u>B</u> erufsgenossenschaftliche <u>R</u> egeln (English: Employers' liability insurance association rules)
BS	<u>B</u> ritish <u>S</u> tandards
CAS	<u>C</u> hemical <u>A</u> bstracts <u>S</u> ervice
CLP	Regulation on <u>C</u> lassification, <u>L</u> abelling and <u>P</u> ackaging of Substances and Mixtures
[DE]	National German regulations
DGUV	<u>D</u> eutsche <u>G</u> esetzliche <u>U</u> nfall <u>v</u> ersicherung (English: German statutory accident insurance)
EC	<u>E</u> uropean <u>C</u> ommunity



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EEC	<u>E</u> uropean <u>E</u> conomic <u>C</u> ommunity
EN	European Standard
EU	<u>E</u> uropean <u>U</u> nion
EWC	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
GHS	<u>G</u> lobally <u>H</u> armonized <u>S</u> ystem of Classification, Labelling and Packaging of Chemicals
GMBL	<u>G</u> emeinsames <u>M</u> inisterial <u>b</u> latt (English: Joint Ministerial Gazette)
IATA-DGR	<u>I</u> nternational <u>A</u> ir <u>T</u> ransport <u>A</u> ssociation - <u>D</u> angerous <u>G</u> oods <u>R</u> egulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG-Code	<u>I</u> nternational <u>M</u> aritime Code for <u>D</u> angerous <u>G</u> oods
LGK	<u>L</u> ager <u>k</u> lasse (English: Storage class)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
PBT	<u>P</u> ersistent, <u>b</u> ioaccumulative and <u>t</u> oxic
ppm	<u>P</u> arts <u>p</u> er <u>m</u> illion
REACH	<u>R</u> egistration, <u>E</u> valuation, <u>A</u> uthorisation and Restriction of <u>C</u> hemicals
RID	<u>R</u> èglement concernant le transport <u>I</u> nternational ferroviaire de marchandises <u>D</u> angereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
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	<u>U</u> nited <u>N</u> ations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
vPvB	<u>V</u> ery persistent and <u>v</u> ery <u>b</u> ioaccumulative

### 16.3. Key literature references and sources for data

- Regulation (EC) No 1907/2006 (REACH), Annex II
- European Chemicals Agency (ECHA) – Guidance on the compilation of safety data sheets; Version 2.1 (February 2014); [http://echa.europa.eu/documents/10162/13643/sds\\_en.pdf](http://echa.europa.eu/documents/10162/13643/sds_en.pdf)
- GISBAU (Hazardous substances information system of the BG BAU) – course „safety data sheet“; <http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm>
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- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents; <http://www.dguv.de/dguv/ifa/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <http://webrigoletto.uba.de/rigoletto>

### 16.4. Training advice

Provide adequate information, instructions and training for users.

### 16.5. Indication of changes

A dash in the left hand margin indicates an amendment from the previous version.

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