

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: Biofilm Removing Set BRS Kit

Manufacturer: Alpro Medical GMBH

SDS Expiry: 27 June 2028

Supplier Details: Henry Schein New Zealand  
243-249 Bush Road, Rosedale, Auckland, 0632  
PO Box 101 140, North Shore, Auckland 0745  
Ph. 0800 808 855  
[www.henryschein.co.nz](http://www.henryschein.co.nz)

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –  
0800POISON/0800764766 (24 Hours)  
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 6 / 8 / 9

HSNO Group Standard: Dental Products Corrosive Group Standard 2020 HSR002555

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared – September 2024

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

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

### 1.1. Product identifier

Trade name: **Bilpron**  
UFI: not applicable

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

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  
National Poisons Information Service (UK): +44 344 892 0111  
National Poisons Information Service (NPIS)  
(24 h / 7 d), Medical Professionals Only

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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

according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

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 (see SECTION 12.5.)

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

No further hazards known.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

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

#### 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

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

## 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.

## 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 medicines, food, feed, cosmetics and stimulants.

### 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: Do not store above 30°C.

# Safety data sheet

## according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

### 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]; 10.07.2015 [No 27]; [www.baua.de](http://www.baua.de)
- [DE] DGUV rules 207-206 – Prevention of chemical risks when handling disinfectants in health service, Issue: 2016.12; Source: [www.dguv.de/publikationen](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 482:2021-04; Title: Workplace exposure - Procedures for the determination of the concentration of chemical agents;  
British version of EN 482:2021

BS EN 689:2018; Title: Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy;  
British version of EN 689:2018

BS EN 14042:2003-04-24; Title: Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents;  
British version of EN 14042:2003)

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

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

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Technical and organisational protective measures

No special protective measures necessary.

#### Personal protective equipment

- |                         |   |
|-------------------------|---|
| Eye/face protection:    | Not necessary when used as intended.      |
| Skin protection:        |   |
| Hand protection:        | Not necessary when used as intended.      |
| Other skin protection:  | Not necessary when used as intended.      |
| Respiratory protection: | Not necessary when used as intended.      |
| Thermal hazards:        | No special protective measures necessary. |

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

## Environmental exposure controls

Not necessary

## SECTION 9: Physical and chemical properties

Appearance/physical state:	clear, blue liquid	
Odour:	apple	
Odour threshold:	no data available	
Melting point/freezing point:	no data available	
Initial boiling point and boiling range:	no data available	
Flammability:	not applicable	
Lower explosive limit:	not applicable	
Upper explosive limit:	not applicable	
Flash point:	not applicable	
Auto-ignition temperature:	no data available	
pH (undiluted):	5.5 – 6.5	(20 °C)
Kinematic viscosity:	no data available	
Solubility in water:	completely soluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure:	no data available	(... °C)
Density:	0.995 – 1.005 g/cm <sup>3</sup>	(20 °C)
Relative vapour density:	no data available	
Particle characteristics:	not applicable	

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Explosive substances/mixtures and products containing explosives:	not applicable
Flammable gases:	not applicable
Aerosols:	not applicable
Oxidising gases:	not applicable
Gases under pressure:	not applicable
Flammable liquids:	not applicable
Flammable solids:	not applicable
Self-reactive substances and mixtures:	not applicable
Pyrophoric liquids:	not applicable
Pyrophoric solids:	not applicable
Self-heating substances and mixtures:	not applicable

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

Substances and mixtures, which emit flammable gases in contact with water:	not applicable
Oxidising liquids:	not applicable
Oxidising solids:	not applicable
Organic peroxides:	not applicable
Substances and mixtures corrosive to metals:	not applicable
Desensitised explosives:	not applicable

## 9.2.2. Other safety characteristics

Electrical conductivity (undiluted): 920-1020  $\mu\text{S}/\text{cm}$  (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 $\text{ATE}_{\text{mix}} > 2000 \text{ mg/kg}$ => no classification
Acute toxicity - dermal:	Acute Toxicity Estimate $\text{ATE}_{\text{mix}} > 2000 \text{ mg/kg}$ => no classification
Acute toxicity - inhalation:	Acute Toxicity Estimate $\text{ATE}_{\text{mix}} > 20 \text{ mg/l}$ => no classification

#### Skin corrosion/irritation

Product

No classification. [calculation method]

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



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

**Serious eye damage/irritation**

Product

No classification. [calculation method]

**Respiratory or skin sensitisation**

Product

No classification. [calculation method]

**Germ cell mutagenicity**

Product

No data available.

**Carcinogenicity**

Product

No data available.

**Reproductive toxicity**

Product

No data available.

**STOT-single exposure**

Product

No classification. [calculation method]

**STOT-repeated exposure**

Product

No data available.

**Aspiration hazard**

Product

No data available.

**Information on other hazards**

Endocrine disrupting properties:

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

**SECTION 12: Ecological information**

**12.1. Toxicity**

No classification. [calculation method]

**12.2. Persistence and degradability**

Biodegradability:

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

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Endocrine disrupting properties

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

## 12.7. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal of the product

Product residues must be disposed of as non-hazardous waste in compliance with the Directive 2008/98/EC on waste as well as national and regional regulations. Do not mix with other waste materials.

Waste codes / waste designations according to EWC

Product residues: 16 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

-

### 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

-

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



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

**14.7. Maritime transport in bulk according to IMO instruments**

-

**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 2019/1021 on persistent organic pollutants

not applicable

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

not applicable

REGULATION (EU) No 648/2004 on detergents

Disinfectants

Perfumes

DIRECTIVE 2012/18/EU (Seveso III Directive) on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

not applicable

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

VOC content: < 2 %

REACH – List of substances subject to authorisation (Annex XIV)

not applicable

REACH – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

not applicable

COUNCIL DIRECTIVE 94/33/EC on the protection of young people at work

not applicable

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding

not applicable

**15.2. Chemical safety assessment**

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

# Safety data sheet

## according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

### 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)
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
EWG	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
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
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
LC <sub>50</sub>	Median lethal concentration
LD <sub>50</sub>	Median lethal dose
LGK	<u>L</u> ager <u>k</u> lasse (English: Storage class)
OECD	<u>O</u> rganization for <u>E</u> conomic <u>C</u> o-operation and <u>D</u> evelopment
PBT	<u>P</u> ersistent, <u>b</u> ioaccumulative and <u>t</u> oxic
ppm	<u>P</u> arts <u>p</u> er <u>m</u> illion
REACH	<u>R</u> egistration, <u>E</u> valuation, <u>A</u> uthorisation and Restriction of <u>C</u> hemicals
RID	<u>R</u> èglement concernant le transport <u>I</u> nternational ferroviaire de marchandises <u>D</u> angereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
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)
VOC	Volatile Organic Compounds
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 4.0 (December 2022); <https://echa.europa.eu/documents>
- Regulation (EC) No 1272/2008 (CLP regulation)

# Safety data sheet

## according to Regulation (EC) No 1907/2006



Trade name: **Bilpron**  
Issue/Revision: 14.06.2023

Version: 3.0  
Replaces version: 2.0

- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008; Version 4.2 (03/2021); <https://echa.europa.eu/documents>
- European Chemicals Agency (ECHA), Registered substances;  
<https://echa.europa.eu/information-on-chemicals/registered-substances>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory;  
<https://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA):  
GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents;  
<https://www.dguv.de/ifa/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <https://webriigoletto.uba.de/rigoletto>

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

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

### 16.5. Training advice

Provide adequate information, instructions and training for users.

### 16.6. Indication of changes

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

---

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

---

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**

Issue/Revision: 27.06.2023

Version: 3.0

Replaces version: 2.1

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

### 1.1. Product identifier

Trade name: **BRS® Remover 3 (PM)**  
UFI: 4HVO-YKVE-W00S-TUVG

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

Relevant identified uses: Cleaning agent  
Intended purpose: Cleaning solution for the main cleaning of the procedural water lines of 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

Supplier: Biodegree PTY. LTD.  
2/359 Alfred Street North  
Neutral Bay NSW 2089 (Australia)  
Tel. +61 499145331  
Email: info@biodegree.com.au

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

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

### 1.4. Emergency telephone number

In-house emergency telephone number: +49 7725 9392-0  
Monday – Friday from 08:00 am to 04:30 pm (UTC+1);  
for chemical information and legal information on hazardous substances only  
Poison centre: +49 761 19240  
Poisoning information centre, Freiburg, Germany  
(24 h / 7 d), English is spoken  
**or Poisons Information Centre (Phone Australia 131 126)**  
**(24h emergency call)**

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 2; H411	Calculation method

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

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

## 2.2. Label elements

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

Hazard pictograms:



Signal word:

Warning

Hazard components  
for labelling:

-

H- phrases: H319  
H411

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

EUH- phrases: EUH208

Contains polyhexamethylene biguanide hydrochloride. The concentrate may produce an allergic reaction.

P- phrases: P280  
P305+P351+P338

Wear eye protection/face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

P273

Avoid release to the environment.

P391

Collect spillage.

## 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII (see SECTION 12.5.).

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

No further hazards known.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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

#### Hazardous ingredients

Chemical name	Identification numbers	Classification in accordance with Regulation (EC) No 1272/2008	Weight %
Trisodium nitrilotriacetate	CAS No: 5064-31-3 EC No: 225-768-6 Index No: 607-620-00-6 REACH Registration No: 01-2119519239-36-XXXX	Carc. 2; H351 Acute Tox. 4; H302 Eye Irrit. 2; H319  <i>Specific concentration limits:</i> Carc. 2; H351: C ≥ 5 %	≥ 1 - < 5
2-phenoxyethanol	CAS No: 122-99-6 EC No: 204-589-7 Index No: 603-098-00-9 REACH Registration No: 01-2119488943-21-XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319	≥ 1 - < 5

# Safety data sheet

## according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

Polyhexamethylene bi-guanide hydrochloride	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 - < 1
Phosphoric acid	CAS No: 7664-38-2 EC No: 231-633-2 Index No: 015-011-00-6 REACH Registration No: 01-2119485924-24-XXXX	Skin Corr. 1B; H314 Skin Irrit. 2; H315 Eye Irrit. 2; H319  <i>Specific concentration limits:</i> <i>Skin Corr. 1B; H314: C ≥ 25 %</i> <i>Skin Irrit. 2; H315: 10 % ≤ C &lt; 25 %</i> <i>Eye Irrit. 2; H319: 10 % ≤ C &lt; 25 %</i>	≥ 0.2 - < 1
Methyldihydrogen phosphate	CAS No: 812-00-0 EC No: 212-379-1 REACH Registration No: 01-2120769124-54-XXXX	Skin Corr. 1; H314	≥ 0.2 - < 1
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	CAS No: 2372-82-9 EC No: 219-145-8 REACH Registration No: 01-2119980592-29-XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  <i>M-Factor acute: 10</i>	< 0.2

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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

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

Causes serious eye irritation.

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

No information available.

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

## 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), phosphorus oxide (P<sub>x</sub>O<sub>y</sub>)

### 5.3. Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus.

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

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Use personal protective equipment. See SECTION 8.2.

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

#### For emergency responders

Use personal protective equipment. See SECTION 8.2.

### 6.2. Environmental precautions

Do not discharge into drains or surface and ground water.

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

#### Containment

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

#### Cleaning up

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

#### Other information

Inappropriate containment and cleaning methods are not known.

### 6.4. Reference to other sections

Information on safe handling see SECTION 7.1.

Information on personal protective equipment see SECTION 8.2.

Information on disposal see SECTION 13.

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Precautions

- Avoid contact with skin and eyes.
- Do not mix with cleaners containing chlorine.

#### Advice on general occupational hygiene

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

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels: 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: Keep away from sunlight.

### 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]; 10.07.2015 [No 27]; [www.baua.de](http://www.baua.de).
- [DE] DGUV rules 207-206 – Prevention of chemical risks when handling disinfectants in health service, Issue: 2016.12; Source: [www.dguv.de/publikationen](http://www.dguv.de/publikationen)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Country	Limit values				Legal basis	Remarks
	Long term (8 hours)		Short term (15 minutes)			
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Phosphoric acid (CAS No: 7664-38-2)						
AU		1		3	WES	
EU		1		2	2000/39/EG	
UK		1		2	EH40	
Trisodium nitrilotriacetate (CAS No: 5064-31-3)						
AU						no limit value specified
EU						no limit value specified
UK						no limit value specified
2-phenoxyethanol (CAS No: 122-99-6)						
AU						no limit value specified
EU						no limit value specified
UK						no limit value specified

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (CAS No: 2372-82-9)						
AU						no limit value specified
EU						no limit value specified
UK						no limit value specified

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

## Biological limit values

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

## Angaben über Überwachungsverfahren

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

BS EN 689:2018; Title: Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy;  
British version of EN 689:2018

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

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

## 8.2. Exposure controls

### Appropriate engineering controls

#### Technical and organisational protective measures

The eyewash station (or eyewash bottle) must be located near the workplace.

### Personal protective equipment

Eye/face protection:	Safety glasses with side protection according to BS EN 166
Skin protection:	
Hand protection:	Protective gloves according to BS EN ISO 374-1 and BS EN 21420 <u>Splash guard:</u> Protective gloves: type C; permeation-resistant at least 10 minutes <u>Permanent contact (&gt; 480 min):</u> Protective gloves: type A or B; code letters: G, H, L; permeation-resistant at least 30 minutes
Other skin protection:	Not necessary when used as intended.
Respiratory protection:	Not necessary when used as intended.
Thermal hazards:	No special protective measures necessary.

### Environmental exposure controls

Do not discharge into drains.

## SECTION 9: Physical and chemical properties

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

Appearance/physical state:	clear, blue liquid
----------------------------	--------------------

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

Odour:	characteristic	
Odour threshold:	no data available	
Melting point/freezing point:	no data available	
Initial boiling point and boiling range:	no data available	
Flammability:	no data available	
Lower explosive limit:	not applicable	
Upper explosive limit:	not applicable	
Flash point:	not applicable	
Auto-ignition temperature:	no data available	
pH (undiluted):	3.5 – 4.5	(20 °C)
Kinematic viscosity:	no data available	
Solubility in water:	completely soluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure:	not applicable	(... °C)
Density:	1.040 – 1.050 g/cm <sup>3</sup>	(20 °C)
Relative vapour density:	not applicable	
Particle characteristics:	not applicable	

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

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

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

Desensitised explosives: not applicable

## 9.2.2. Other safety characteristics

Electrical conductivity (undiluted): 5500 – 6500 µS/cm (20 °C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored as intended.  
Do not mix with cleaners containing chlorine. Chlorine gas may be released.

### 10.2. Chemical stability

The product is stable when handled and stored as intended.

### 10.3. Possibility of hazardous reactions

None known  
Do not mix with cleaners containing chlorine. Chlorine gas may be released.

### 10.4. Conditions to avoid

None known

### 10.5. Incompatible materials

No incompatible materials known when used as directed.  
Do not mix with cleaners containing chlorine. Chlorine gas may be released.

### 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

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

Acute toxicity - oral: LD<sub>50</sub>: 1300 mg/kg; species: rat; strain: Sprague-Dwaley;  
method: EPA OPP 81-1

#### 2-phenoxyethanol (CAS No: 122-99-6):

Acute toxicity - oral: LD<sub>50</sub>: 1840 mg/kg; species: rat; strain: Wistar; method: OECD 401

#### Polyhexamethylene biguanide hydrochloride (CAS No: 1802181-67-4):

Acute toxicity - inhalation: LC<sub>50</sub>: 1,61 mg/l; species: rat; method: OECD 403

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

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

Acute toxicity - oral: LC<sub>50</sub>: 261 mg/kg; species: rat; strain: Sprague-Dawley; method: OECD 401  
Acute toxicity - dermal: LC<sub>50</sub>: 600 mg/kg; species: rat; strain: Sprague-Dawley; method: EU Method B.3

## Skin corrosion/irritation

Product

No classification. [calculation method]

## Serious eye damage/irritation

Product

Causes serious eye irritation. [calculation method]

## Respiratory or skin sensitisation

Product

No data available.

## Germ cell mutagenicity

Product

No data available.

## Carcinogenicity

Product

No classification. [calculation method]

Ingredients

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

The substance was shown to have a carcinogenic effect in animal studies with long-term administration of large amounts via the drinking water or via the food. With single or short-term intake of the substance a carcinogenic effect is however practically ruled out.

## Reproductive toxicity

Product

No classification. [calculation method]

## STOT-single exposure

Product

No classification. [calculation method]

## STOT-repeated exposure

Product

No data available.

## Aspiration hazard

Product

No data available.

## Information on other hazards

Endocrine disrupting properties:

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

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

## 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.

Polyhexamethylene biguanide hydrochloride (CAS No: 1802181-67-4):

No data available

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

Aquatic acute 1: H400 and Aquatic chronic 1 - H410

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal of the product

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

Waste codes / waste designations according to EWC

Product residues: 16 01 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).

From a dilution to 2 % the concentrate is no longer classified as a hazardous substance.

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

## 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

UN 3082

### 14.2. UN proper shipping name

#### ADR/RID/ADN

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (polyhexamethylene biguanide hydrochloride)

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

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (polyhexamethylene biguanide hydrochloride)

### 14.3. Transport hazard class(es)

Class: 9

Subsidiary risk(s): -

### 14.4. Packing group

III

### 14.5. Environmental hazards

#### ADR/RID/ADN

Environmentally Hazardous: Yes

#### IMDG-Code

Marine Pollutant: Yes

### 14.6. Special precautions for user

Not necessary.

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### 14.8. Further information

Transport category according to ADR section 1.1.3.6: 3

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

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

Classification code according to ADR/RID/ADN: M6

Hazard identification number according to ADR/RID: 90

Tunnel restriction code according to ADR/RID: -

Segregation group according to IMDG-Code section 5.4.1.5.11.1: -

EmS codes: F-A; S-F

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

## 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 2019/1021 on persistent organic pollutants  
not applicable

REGULATION (EU) No 649/2012 concerning the export and import of hazardous chemicals  
not applicable

REGULATION (EU) No 648/2004 on detergents

Phosphates: < 5 %  
NTA: < 5 %

DIRECTIVE 2012/18/EU (Seveso III Directive) on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

<i>Hazard category</i>	<i>Qualifying quantity (tonnes) (lower-tier establishment)</i>	<i>Qualifying quantity (tonnes) (upper-tier establishment)</i>
E2 ENVIRONMENTAL HAZARDS	200	500

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

VOC content: < 27 %

REACH – List of substances subject to authorisation (Annex XIV)  
not applicable

REACH – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)  
not applicable

COUNCIL DIRECTIVE 94/33/EC on the protection of young people at work  
not applicable

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding  
not applicable

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

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

#### Hazard classes

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic hazard
Aquatic Chronic	Long-term aquatic hazard
Carc.	Carcinogenicity

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity (repeated exposure)
STOT SE	Specific target organ toxicity (single exposure)

## H-phrases (Hazard statements)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard >.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

## 16.2. Abbreviations and acronyms

ADN	<u>A</u> ccord <u>e</u> uropéen 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 <u>e</u> uropéen 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)
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
EW	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
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
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
LC <sub>50</sub>	Median lethal concentration
LD <sub>50</sub>	Median lethal dose
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

# Safety data sheet

## according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover 3 (PM)**  
Issue/Revision: 27.06.2023

Version: 3.0  
Replaces version: 2.1

ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
TRGS	Technische Regeln für Gefahrstoffe (English: Technical Rules for Hazardous Substances)
UN	United Nations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
VOC	Volatile Organic Compounds
vPvB	Very persistent and very bioaccumulative

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

- Regulation (EC) No 1907/2006 (REACH), Annex II
- European Chemicals Agency (ECHA) – Guidance on the compilation of safety data sheets; Version 4.0 (December 2022); <https://echa.europa.eu/documents>
- Regulation (EC) No 1272/2008 (CLP regulation)
- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008; Version 4.2 (03/2021); <https://echa.europa.eu/documents>
- European Chemicals Agency (ECHA), Registered substances; <https://echa.europa.eu/information-on-chemicals/registered-substances>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; <https://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents; <https://www.dguv.de/ifa/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <https://webritoletto.uba.de/rigoletto>

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

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

### 16.5. Training advice

Provide adequate information, instructions and training for users.

### 16.6. Indication of changes

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

---

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

---

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

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

### 1.1. Product identifier

Trade name: **BRS® PreCleaner**  
UFI: Q5TN-5263-800C-0X75

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

Relevant identified uses: Cleaning agent, enzymatic  
Intended purpose: Cleaning powder for the precleaning of the procedural water lines of 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

Supplier: Biodegree PTY. LTD.  
2/359 Alfred Street North  
Neutral Bay NSW 2089 (Australia)  
Tel. +61 499145331  
Email: info@biodegree.com.au

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

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

### 1.4. Emergency telephone number

In-house emergency telephone number: +49 7725 9392-0  
Monday – Friday from 08:00 am to 04:30 pm (UTC+1);  
for chemical information and legal information on  
hazardous substances only  
Poison centre: +49 761 19240  
Poisoning information centre, Freiburg, Germany  
(24 h / 7 d), English is spoken  
or **Poisons Information Centre (Phone Australia 131 126)**  
**(24h emergency call)**

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Classification	Classification procedure
Skin Corr. 1B; H314	Calculation method

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

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

## 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  
P280

Do not breathe dust.

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 (see SECTION 12.5.).

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

No further hazards known.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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

#### Gefährliche Inhaltsstoffe

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
Dinatriummetasilikat	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.

Occupational exposure limits: see SECTION 8.1

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

## 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 surface and ground water.

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

## 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 medicines, food, feed, cosmetics and stimulants.

### 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: Keep away from sunlight.

### 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]; 10.07.2015 [No 27]; [www.baua.de](http://www.baua.de).

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

# Safety data sheet

## according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

### Biological limit values

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

### Angaben über Überwachungsverfahren

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

BS EN 689:2018; Title: Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy;  
British version of EN 689:2018

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

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

## 8.2. Exposure controls

### Appropriate engineering controls

#### Technical and organisational protective measures

The eyewash station (or eyewash bottle) and emergency shower must be located near the workplace.

### Personal protective equipment

Eye/face protection:	Safety glasses with side protection according to BS EN 166
Skin protection:	
Hand protection:	Protective gloves according to BS EN ISO 374-1 and BS EN 21420 <u>Splash guard:</u> Protective gloves: type C; permeation-resistant at least 10 minutes <u>Permanent contact (&gt; 480 min):</u> Protective gloves: type A or B; code letters: I, K; permeation-resistant at least 30 minutes
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/physical state:	reddish, granular powder
Odour:	characteristic
Odour threshold:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flammability:	no data available

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

Lower explosive limit:	not applicable	
Upper explosive limit:	not applicable	
Flash point:	not applicable	
Auto-ignition temperature:	no data available	
pH (5 g/l H <sub>2</sub> O):	11.5 – 12.5	(20 °C)
Kinematic viscosity:	no data available	
Solubility in water:	completely soluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure:	not applicable	
Density:	no data available	(... °C)
Relative vapour density:	not applicable	
Particle characteristics:	not applicable	

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

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

### 9.2.2. Other safety characteristics

Electrical conductivity (5 g/l H <sub>2</sub> O):	5500 - 7500 µS/cm	(20 °C)
---	-------------------	---------

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

## 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

No incompatible materials known when used as intended.

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

Acute toxicity - oral: LD<sub>50</sub>: 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.

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

## 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.

## Information on other hazards

Endocrine disrupting properties:

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

## SECTION 12: Ecological information

### 12.1. Toxicity

No classification. [calculation method]

### 12.2. Persistence and degradability

Biodegradability:

The product is biodegradable according to OECD criteria. The statement has been derived from the properties of the 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. Ergebnisse der PBT- und vPvB-Beurteilung

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

### 12.6. Endocrine disrupting properties

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

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

## 12.7. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal of the product

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

Waste codes / waste designations according to EWC

Product residues: 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).

From a dilution to 0.05 % the concentrate is no longer classified as a hazardous substance.

## 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

#### 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

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

## IMDG-Code

Marine Pollutant: No

## 14.6. Special precautions for user

Not necessary.

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## 14.8. Further information

Transport category according to ADR section 1.1.3.6:	3
Maximum total quantity per transport unit according to ADR section 1.1.3.6:	1000 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

REGULATION (EC) No 2019/1021 on persistent organic pollutants  
not applicable

REGULATION (EU) No 649/2012 concerning the export and import of hazardous chemicals  
not applicable

REGULATION (EU) No 648/2004 on detergents  
Enzymes: < 5 %  
Phosphates: < 5 %

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

# Safety data sheet

## according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

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	Accord européen relatif au transport international des marchandises <u>d</u> angereuses par voie de <u>n</u> avigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord 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)
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
EWG	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
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
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
LD <sub>50</sub>	Median lethal dose
OECD	<u>O</u> rganization for <u>E</u> conomic <u>C</u> o-operation and <u>D</u> evelopment

# Safety data sheet

## according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**  
Issue/Revision: 26.06.2023

Version: 3.0  
Replaces version: 2.1

PBT	Persistent, bioaccumulative and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
TRGS	Technische Regeln für Gefahrstoffe (English: Technical Rules for Hazardous Substances)
UN	United Nations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
vPvB	Very persistent and very bioaccumulative

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

- Regulation (EC) No 1907/2006 (REACH), Annex II
- European Chemicals Agency (ECHA) – Guidance on the compilation of safety data sheets; Version 4.0 (December 2022); <https://echa.europa.eu/documents>
- Regulation (EC) No 1272/2008 (CLP regulation)
- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008; Version 4.2 (03/2021); <https://echa.europa.eu/documents>
- European Chemicals Agency (ECHA), Registered substances;  
<https://echa.europa.eu/information-on-chemicals/registered-substances>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory;  
<https://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA):  
GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents;  
<https://www.dguv.de/ifa/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <https://webritoletto.uba.de/rigoletto>

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

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

### 16.5. Training advice

Provide adequate information, instructions and training for users.

### 16.6. Indication of changes

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

---

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

---