

Veiligheidsinformatieblad

volgens verordening (EG) nr. 1907/2006



Handelsnaam: **Bilpron**

Opgesteld/Herziening van: 03.04.2017

Datum van de druk: 29.08.2017

Versie: 1.1

Vervangt versie: 1.0

RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

1.1. Productidentificatie

Handelsnaam: **Bilpron**

1.2. Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Relevant geïdentificeerd gebruik: Reinigings- en desinfectiemiddel

Beoogd gebruik: Gebruiksklare oplossing voor de ontsmetting en vermindering van de vorming van biofilm in bedrijfswaterwegen van medische en tandheelkundige behandel eenheden.

Ontraden gebruik: Geen bij toepassing volgens de voorschriften.

Opmerking: Het product is bestemd voor beroepsmatige gebruikers.

1.3. Details betreffende de verstrekker van het veiligheidsinformatieblad

Fabrikant/Verstrekker: ALPRO MEDICAL GMBH
Mooswiesenstraße 9
D-78112 St. Georgen (Duitsland)
Telefoon: +49 7725 9392-0
Telefax: +49 7725 9392-91
E-mail: alpro@alpro-medical.de
Internet: www.alpro-medical.com

E-mailadres van de bevoegde persoon die voor het veiligheidsinformatieblad verantwoordelijk is: doku@alpro-medical.de

1.4. Telefoonnummer voor noodgevallen

Telefoonnummer bij nood van de firma: +49 7725 9392-0
Ma. – vr. van 08:00 – 16:30 uur (UTC+1); alleen voor informatie over chemische specificaties en wetgeving gevaarlijke stoffen

Alarmcentrale voor vergiftigingen: +49 761 19240
Informatiecentrum voor vergiftigingen, Freiburg, Duitsland (24 h / 7 d)

RUBRIEK 2: Identificatie van de gevaren

2.1. Indeling van de stof of het mengsel

Indeling volgens verordening (EG) nr. 1272/2008 [CLP]

Het mengsel is niet als gevaarlijk ingedeeld in de zin van verordening (EG) nr. 1272/2008 [CLP].

Indeling volgens richtlijn 1999/45/EG

zie RUBRIEK 16.1.

2.2. Etiketteringselementen

Etikettering volgens verordening (EG) nr. 1272/2008 [CLP]

Het mengsel valt niet onder verplichte etikettering in de zin van verordening (EG) nr. 1272/2008 [CLP].

Gevarenpictogrammen: -

Signaalwoord: -

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Gevaarbepalende componenten voor de etikettering: -

H-zinnen: -

P-zinnen: -

Etikettering volgens richtlijn 1999/45/EG

zie RUBRIEK 16.2.

2.3. Andere gevaren

De stoffen in het mengsel voldoen niet aan de PBT/zPzB criteria volgens verordening (EG) nr. 1907/2006, bijlage XIII.

Geen andere gevaren bekend.

RUBRIEK 3: Samenstelling en informatie over de bestanddelen

3.2. Mengsels

Chemische karakterisering: Mengsel van propyleenglycol, parabenen, biguaniden en complexvormers in een waterige oplossing.

Gevaarlijke ingrediënten

Bevat geen gevaarlijke ingrediënten boven de in verordening (EG) nr. 1907/2006 vastgelegde concentratiegrenswaarden.

RUBRIEK 4: Eerstehulpmaatregelen

4.1. Beschrijving van de eerstehulpmaatregelen

Algemene aanwijzingen: Hulpverlener: zorg ervoor dat u beschermd bent!

Na inademen: Toevoer van frisse lucht. Bij klachten een arts raadplegen.

Na huidcontact: Geen bijzondere maatregelen noodzakelijk.

Na oogcontact: Ogen met geopende oogleden meerdere minuten uitspoelen met stromend water. Contactlenzen verwijderen, indien mogelijk.

Na inslikken: Mond met water uitspoelen. Water laten drinken.

4.2. Belangrijkste acute en uitgestelde symptomen en effecten

Niet bekend.

4.3. Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling

Het product bevat een bron van fenylalanine.

RUBRIEK 5: Brandbestrijdingsmaatregelen

5.1. Blusmiddelen

Geschikte blusmiddelen: Watersproeistraal, alcoholbestendig schuim, bluspoeder, kooldioxide (CO₂)

Ongeschikte blusmiddelen: Volle waterstraal

5.2. Speciale gevaren die door de stof of het mengsel worden veroorzaakt

Gevaarlijke verbrandingsproducten: Koolmonoxide (CO), kooldioxide (CO₂)

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5.3. Advies voor brandweerlieden

Speciale beschermende uitrusting: Niet noodzakelijk

Overige informatie: Bedreigde container koelen met watersproeistraal.

RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

6.1. Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures

Voor andere personen dan de hulpdiensten

Persoonlijke beschermingsuitrusting gebruiken. Zie RUBRIEK 8.2.

Vooraf gevaar voor uitglijden door uitgelopen/gemorst product.

Voor de hulpdiensten

Persoonlijke beschermingsuitrusting gebruiken. Zie RUBRIEK 8.2.

6.2. Milieuvoorzorgsmaatregelen

Niet noodzakelijk

6.3. Insluitings- en reinigingsmethoden en -materiaal

Insluiting

Niet noodzakelijk

Reiniging

Kleine hoeveelheden met absorberend materiaal (bijv. doeken, vlies) opvegen. Grotere hoeveelheden met vloeistofbindend materiaal (zand, kiezelgoer, universeel bindmiddel, zaagmeel) opnemen.

Overige informatie

Ongeschikte insluitings- en reinigingsmethoden zijn niet bekend.

6.4. Verwijzing naar andere rubrieken

Informatie over veilige hantering zie rubriek 7.1.

Informatie over persoonlijke beschermingsmiddelen zie rubriek 8.2.

Informatie over verwijdering zie rubriek 13.

RUBRIEK 7: Hantering en opslag

7.1. Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel

Voorzorgsmaatregelen

Niet noodzakelijk

Advies inzake algemene beroepsmatige hygiëne

Tijdens het werk niet eten, drinken, roken. Voor pauzes en aan het eind van de werkdag de handen wassen. Verwijderd houden van eet- en drinkwaren.

7.2. Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten

Vereisten voor opslagruimten of -vaten: Alleen in originele containers bewaren.

Instructie voor gezamenlijke opslag: Niet noodzakelijk

Meer informatie over opslagomstandigheden: Aanbevolen opslagtemperatuur: 5 °C - 30 °C.

Opslagklasse ([DE] TRGS 510): LGK 12 Niet brandbare vloeistoffen, die bij geen van voorgenoemde opslagklassen kunnen worden ingedeeld

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7.3. Specifiek eindgebruik

Naast de in rubriek 1.2 genoemde toepassingen zijn er geen andere, specifieke eindtoepassingen voorzien.

Branche- en sectorspecifieke richtsnoeren

- [DE] TRGS 525 - Gevaarlijke stoffen in inrichtingen voor medische verzorging (sectie 7 Bezigheden met desinfectiemiddelen); uitgave: september 2014; Bron: GMBI 2014 p. 1294-1307 v. 13.10.2014 [Nr. 63]; www.baua.de
- [DE] DGUV Regel 107-002 (voorheen BGR 206) - Desinfectiewerkzaamheden in de gezondheidszorg Uitgave: Juli 1999; Bron: www.dguv.de/publikationen

RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

8.1. Controleparameters

Grenswaarden voor beroepsmatige blootstelling

Bevat geen stoffen in hoeveelheden boven de concentratiegrenswaarden waarvoor een grenswaarde voor beroepsmatige blootstelling is vastgelegd.

Biologische grenswaarden

Bevat geen stoffen in hoeveelheden boven de concentratiegrenswaarden waarvoor een biologische grenswaarde is vastgelegd.

Informatie over monitoringprocedures

NEN-EN 482:2012; Titel: Werkplekatmosfeer - Algemene eisen voor de uitvoering van de procedures voor het meten van chemische stoffen;
Nederlandse versie van EN 482:2012

NEN-EN 689:1995; Titel: Werkplekatmosfeer - Leidraad voor de beoordeling van de blootstelling bij inademing van chemische stoffen voor de vergelijking met de grenswaarden en de meetstrategie;
Nederlandse versie van EN 689:1995

NEN-EN 14042:2003; Titel: Werkplekatmosfeer - Richtlijn voor de toepassing en het gebruik van procedures voor de beoordeling van blootstelling aan chemische en biologische stoffen;
Nederlandse versie van EN 14042:2003

8.2. Maatregelen ter beheersing van blootstelling

Passende technische maatregelen

Technische en organisatorische voorzorgsmaatregelen

Geen speciale voorzorgsmaatregelen noodzakelijk.

Persoonlijke beschermingsmiddelen

Bescherming van de ogen/het gezicht: Niet noodzakelijk bij gebruik volgens de voorschriften.

Bescherming van de huid:

Bescherming van de handen: Niet noodzakelijk bij gebruik volgens de voorschriften.

Overige huidbescherming: Niet noodzakelijk bij gebruik volgens de voorschriften.

Bescherming van de ademhalingswegen: Niet noodzakelijk bij gebruik volgens de voorschriften.

Thermische gevaren: Geen speciale voorzorgsmaatregelen noodzakelijk.

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Beheersing van milieublootstelling

Niet noodzakelijk

RUBRIEK 9: Fysische en chemische eigenschappen

9.1. Informatie over fysische en chemische basiseigenschappen

Voorkomen:	transparante, blauwe vloeistof	
Geur:	karacteristiek	
Geurdrempelwaarde:	geen gegevens beschikbaar	
pH (onverdund):	5,5 – 6,5	(20 °C)
Smelt-/vriespunt:	geen gegevens beschikbaar	
Beginkookpunt en kooktraject:	geen gegevens beschikbaar	
Vlampunt:	niet van toepassing	
Verdampingssnelheid:	geen gegevens beschikbaar	
Ontvlambaarheid (vast, gas):	niet van toepassing	
Onderste explosiegrens:	niet van toepassing	
Bovenste explosiegrens:	niet van toepassing	
Dampspanning:	geen gegevens beschikbaar	(... °C)
Dampdichtheid:	geen gegevens beschikbaar	
Relatieve dichtheid:	0,995 – 1,005	(20 °C)
Oplosbaarheid in water:	volledig oplosbaar	
Verdelingscoëfficiënt: n-octanol/water	niet van toepassing	
Zelfontbrandingstemperatuur:	niet van toepassing	
Ontledingstemperatuur:	geen gegevens beschikbaar	
Viscositeit:	geen gegevens beschikbaar	
Ontploffingseigenschappen:	geen	
Oxiderende eigenschappen:	geen	

9.2. Overige informatie

Brekingindex nD:	1,3355-1,3370	(20 °C)
Elektr. geleidbaarheid (onverdund):	920-1020 µS/cm	(20 °C)

RUBRIEK 10: Stabiliteit en reactiviteit

10.1. Reactiviteit

Bij hantering en opslag volgens de voorschriften treden er geen gevaarlijke reacties op.

10.2. Chemische stabiliteit

Het product is bij hantering en opslag volgens de voorschriften stabiel.

10.3. Mogelijke gevaarlijke reacties

Niet bekend

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10.4. Te vermijden omstandigheden

Niet bekend

10.5. Chemisch op elkaar inwerkende materialen

Niet bekend

10.6. Gevaarlijke ontledingsproducten

Ontleedt niet bij gebruik overeenkomstig de bestemming ervan.

RUBRIEK 11: Toxicologische informatie

11.1. Informatie over toxicologische effecten

Acute toxiciteit

Product

Acute orale toxiciteit: Acute toxiciteitsschatting $ATE_{mix} > 2000$ mg/kg
=> geen indeling

Acute dermale toxiciteit: Acute toxiciteitsschatting $ATE_{mix} > 2000$ mg/kg
=> geen indeling

Acute inhalatieve toxiciteit: Acute toxiciteitsschatting $ATE_{mix} > 20$ mg/l
=> geen indeling

Huidcorrosie/-irritatie

Product

Geen indeling. [Berekeningsmethode]

Ernstig oogletsel/oogirritatie

Product

Geen indeling. [Berekeningsmethode]

Sensibilisatie van de luchtwegen/de huid

Product

Geen indeling. [Berekeningsmethode]

Mutageniteit in geslachtscellen

Product

Geen gegevens beschikbaar.

Carcinogeniteit

Product

Geen gegevens beschikbaar.

Giftigheid voor de voortplanting

Product

Geen gegevens beschikbaar.

STOT bij eenmalige blootstelling

Product

Geen indeling. [Berekeningsmethode]

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STOT bij herhaalde blootstelling

Product

Geen gegevens beschikbaar.

Gevaar bij inademing

Product

Geen gegevens beschikbaar.

RUBRIEK 12: Ecologische informatie

12.1. Toxiciteit

Geen indeling. [Berekeningsmethode]

12.2. Persistentie en afbreekbaarheid

Biologische afbreekbaarheid:

Het product is volgens de criteria van de OECD biologisch afbreekbaar. De uitspraak is afgeleid op basis van de eigenschappen van de ingrediënten.

12.3. Bioaccumulatie

Geen gegevens beschikbaar.

12.4. Mobiliteit in de bodem

Geen gegevens beschikbaar.

12.5. Resultaten van PBT- en zPzB-beoordeling

De stoffen in het mengsel voldoen niet aan de PBT/zPzB criteria volgens verordening (EG) nr. 1907/2006, bijlage XIII.

12.6. Andere schadelijke effecten

Geen gegevens beschikbaar.

RUBRIEK 13: Instructies voor verwijdering

13.1. Afvalverwerkingsmethoden

Verwijdering van het product

Productresten moeten onder inachtneming van de afvalrichtlijn 2008/98/EG alsmede landelijke en regionale voorschriften als niet gevaarlijk afval worden afgevoerd. Niet mengen met andere soorten afval.

Afvalsleutel / afvalaanduidingen volgens EWC

Productresten: 16 10 02 niet onder 16 10 01 vallend waterig vloeibaar afval

Verwijdering van de verpakking

Afvalsleutel / afvalaanduidingen volgens EWC

Verontreinigde verpakkingen: 15 01 02 kunststofverpakking

Aanbeveling

Verontreinigde verpakkingen moeten volledig worden geleegd en kunnen dan worden aangeboden voor recycling.

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RUBRIEK 14: Informatie met betrekking tot het vervoer

14.0. Transportindeling

Geen gevaar goedgekeurd in de zin van de transportvoorschriften over de weg (ADR), via het spoor (RID), binnenscheepvaart (ADN), zeescheepvaart (IMDG-code) en luchtverkeer (ICAO-TI/IATA-DGR).

14.1. VN-nummer

-

14.2. Juiste ladingnaam overeenkomstig de modelreglementen van de VN

-

14.3. Transportgevaar Klasse(n)

-

14.4. Verpakkingsgroep

-

14.5. Milieugevaren

-

14.6. Bijzondere voorzorgen voor de gebruiker

-

14.7. Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code

-

14.8. Overige informatie

-

RUBRIEK 15: Regelgeving

15.1. Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

EU-voorschriften

VERORDENING (EG) Nr. 1005/2009 betreffende de ozonlaag afbrekende stoffen

niet van toepassing

VERORDENING (EG) Nr. 850/2004 betreffende persistente organische verontreinigende stoffen en tot wijziging van Richtlijn 79/117/EEG

niet van toepassing

VERORDENING (EU) Nr. 649/2012 betreffende de in- en uitvoer van gevaarlijke chemische stoffen

niet van toepassing

RICHTLIJN 2012/18/EU (Seveso III-Richtlijn) betreffende de beheersing van de gevaren van zware ongevallen waarbij gevaarlijke stoffen zijn betrokken, houdende wijziging en vervolgens intrekking van Richtlijn 96/82/EG

niet van toepassing

RICHTLIJN 2010/75/EU inzake industriële emissies (geïntegreerde preventie en bestrijding van verontreiniging)

niet van toepassing

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REACH - Lijst van autorisatieplichtige stoffen (Bijlage XIV)

niet van toepassing

REACH - Beperkingen op de vervaardiging, het in de handel brengen en het gebruik van bepaalde gevaarlijke stoffen, mengsels en voorwerpen (Bijlage XVII)

niet van toepassing

RICHTLIJN 94/33/EG betreffende de bescherming van jongeren op het werk

niet van toepassing

RICHTLIJN 92/85/EEG inzake de tenuitvoerlegging van maatregelen ter bevordering van de verbetering van de veiligheid en de gezondheid op het werk van werknemers tijdens de zwangerschap, na de bevalling en tijdens de lactatie

niet van toepassing

15.2. Chemischeveiligheidsbeoordeling

Voor dit mengsel werd geen chemischeveiligheidsbeoordeling uitgevoerd.

RUBRIEK 16: Overige informatie

16.1. Indeling volgens richtlijn 1999/45/EG

Opmerking: Hierbij gaat het om de indeling tot nu toe; producten met deze indeling kunnen nog in de leveringsketen of in de handel aanwezig zijn en mogen tot 01.06.2017 worden verkocht.

Het product is niet als gevaarlijk ingedeeld in de zin van preparatenrichtlijn 1999/45/EG.

16.2. Etikettering volgens richtlijn 1999/45/EG

Opmerking: Hierbij gaat het om de etikettering tot nu toe; producten met deze etikettering kunnen nog in de leveringsketen of in de handel aanwezig zijn en mogen tot 01.06.2017 worden verkocht.

Het product valt niet onder verplichte etikettering in de zin van preparatenrichtlijn 1999/45/EG.

Gevaarsymbolen: -

Gevaaraanduidingen: -

Gevaarbepalende componenten voor de etikettering: -

R-zinnen: -

S-zinnen: -

Bijzondere etikettering van bepaalde preparaten (preparatenrichtlijn 1999/45/EG bijlage V):

niet noodzakelijk

Aanvullende aanwijzing: bevat fenylalanine

16.3. Tekst van de identificatieletters, gevarenklassen, R- en H-zinnen

Identificatieletters en gevaarscategorieën

-

Gevarenklassen

-

R-zinnen (aanduiding van de bijzondere gevaren)

-

H-zinnen (Gevarenaanduidingen)

-

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16.4. Afkortingen en acroniemen

ADN	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par voie de <u>n</u> avigation intérieure (Europese overeenkomst voor het internationale vervoer van gevaarlijke goederen over de binnenwateren)
ADR	<u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par <u>r</u> oute (Europese overeenkomst voor het internationale vervoer van gevaarlijke goederen over de weg)
BGR	<u>B</u> erufsgenossenschaftliche <u>R</u> egeln (regels t.a.v. veiligheid en gezondheid op de werkplek in het kader van ongevallenverzekering)
CLP	Regulation on <u>C</u> lassification, <u>L</u> abelling and <u>P</u> ackaging of Substances and Mixtures (verordening betreffende de indeling, etikettering en verpakking van stoffen en mengsels)
[DE]	Nationale, Duitse bepalingen
DGUV	<u>D</u> eutsche <u>G</u> esetzliche <u>U</u> nfallversicherung (Duitse wettelijke ongevallenverzekering)
EEG	<u>E</u> uropese <u>E</u> conomische <u>G</u> emeenschap
EG	<u>E</u> uropese <u>G</u> emeenschap
EN	<u>E</u> uropese <u>N</u> orm
EU	<u>E</u> uropese <u>U</u> nie
EWC	<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue (Europese afvalcatalogus)
GHS	<u>G</u> lobally <u>H</u> armonized <u>S</u> ystem of Classification, Labelling and Packaging of Chemicals (Wereldwijd geharmoniseerd systeem voor de indeling en etikettering van chemicaliën)
GMBI	<u>G</u> emeinsames <u>M</u> inisterial <u>b</u> latt (gemeenschappelijk ministerieel blad)
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 (Internationale luchttransportassociatie – Voorschriften gevaarlijke goederen)
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (Internationale Code voor de bouw en uitrusting van schepen die gevaarlijke chemicaliën in bulk vervoeren)
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air (Technische instructies voor het veilige vervoer van gevaarlijke goederen via de lucht)
IMDG-code	<u>I</u> nternational <u>M</u> aritime Code for <u>D</u> angerous <u>G</u> oods (Internationaal voorschrift voor het vervoer van gevaarlijke goederen over zee)
LGK	<u>L</u> ager <u>k</u> lasse (opslagklasse)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships (Internationaal Verdrag ter voorkoming van verontreiniging door schepen)
NEN	<u>N</u> ederlandse <u>N</u> orm
OECD	<u>O</u> rganization for <u>E</u> conomic <u>C</u> o-operation and <u>D</u> evelopment (Organisatie voor economische samenwerking en ontwikkeling)
PBT	<u>P</u> ersistent, <u>b</u> ioaccumulative and <u>t</u> oxic (persistent, bioaccumulerend en toxisch)
REACH	<u>R</u> egistration, <u>E</u> valuation, <u>A</u> uthorisation and Restriction of <u>C</u> hemicals (<u>R</u> egistratie, <u>e</u> valuatie, <u>a</u> utorisatie en beperkingen van <u>c</u> hemische stoffen)
RID	<u>R</u> èglement concernant le transport <u>I</u> nternational ferroviaire de marchandises <u>D</u> angereuses (Reglement betreffende het internationaal spoorwegvervoer van gevaarlijke goederen)
TRGS	<u>T</u> echnische <u>R</u> egeln für <u>G</u> efährstoffe (Technische Regels voor Gevaarlijke Stoffen)
UN	<u>U</u> nited <u>N</u> ations (Verenigde Naties)
UTC	Gecoördineerde wereldtijd (Engels: Coordinated Universal Time, Frans: Temps Universel Coordonné)
zPzB	<u>Z</u> eer <u>p</u> ersistent en <u>z</u> eer <u>b</u> ioaccumulerend (Engels: vPvB = <u>v</u> ery <u>p</u> ersistent and <u>v</u> ery <u>b</u> ioaccumulative)

16.5. Belangrijke literatuurreferenties en gegevensbronnen

- Verordening (EG) nr. 1907/2006 (REACH), bijlage II
- Europees Agentschap voor chemische stoffen (ECHA) – Richtsnoer voor het samenstellen van veiligheidsinformatiebladen; versie 2.2 (december 2014);
http://echa.europa.eu/documents/10162/13643/sds_de.pdf

Veiligheidsinformatieblad

volgens verordening (EG) nr. 1907/2006



Handelsnaam: **Bilpron**

Opgesteld/Herziening van: 03.04.2017

Datum van de druk: 29.08.2017

Versie: 1.1

Vervangt versie: 1.0

- GISBAU (Informatiesysteem gevaarlijke stoffen van BG BAU) – cursus „Veiligheidsinformatieblad“;
<http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm>
- Verordening (EG) nr. 1272/2008 (CLP-verordening)
- Europees Agentschap voor chemische stoffen (ECHA) – Richtsnoer voor etikettering en verpakking in overeenstemming met Verordening (EG) nr. 1272/2008 (10/2014);
http://echa.europa.eu/documents/10162/13562/clp_labelling_de.pdf
- Europees Agentschap voor chemische stoffen (ECHA), Geregistreerde stoffen;
<http://echa.europa.eu/information-on-chemicals/registered-substances>
- Europees Agentschap voor chemische stoffen (ECHA), C&L indelings- en etiketteringsinventaris;
<http://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA) (Instituut voor arbeidsbescherming van de Duitse wettelijke ongevallenverzekering): GESTIS- stofdatabank en GESTIS - Internationale grenswaarden; <http://www.dguv.de/dguv/ifa/index.jsp>
- Umweltbundesamt (Federaal bureau voor milieu), kennisgebied IV 2.4: Documentatie- en informatiecentrum voor waterbezwaarlijke stoffen RIGOLETTO (catalogus waterbezwaarlijke stoffen);
<http://webrigoletto.uba.de/rigoletto>

16.6. Opleidingsadviezen

Zorg voor passende informatie, instructies en scholing van de gebruikers.

16.7. Vermelding van veranderingen

Wijzigingen ten aanzien van de vorige versie worden aangeduid op de linker regelrand met een streep.

De informatie van het veiligheidsinformatieblad is alleen van toepassing op het beschreven product in samenhang met zijn gebruik volgens de voorschriften. De specificaties zijn op grond van de actuele stand van onze kennis op het tijdstip van de herziening. Zij zijn met name bestemd om ons product in het licht van de gevaren die daar van uitgaan en de te nemen voorzorgsmaatregelen te beschrijven. Zij vormen geen toezegging van product- en kwaliteitseigenschappen.

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

Issue/Revision: 10.02.2016

Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

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® 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
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]

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

Classification in accordance with Directive 1999/45/EC

see SECTION 16.1.

2.2. Label elements

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

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

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

Issue/Revision: 10.02.2016

Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

Hazard pictograms: -

Signal word: -

Hazard components
for labelling: -

H-phrases: -

P-phrases: -

Label elements in accordance with Directive 1999/45/EC

see SECTION 16.2.

2.3. Other hazards

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

No further hazards known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterisation: Mixture of 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 (CO₂)

Unsuitable extinguishing media: Full water jet

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

Issue/Revision: 10.02.2016

Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon monoxide (CO), carbon dioxide (CO₂)

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

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

Issue/Revision: 10.02.2016

Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

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
- [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

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

Issue/Revision: 10.02.2016

Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

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

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

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Version: 1.0

Replaces version: of 18.02.2013

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 $ATE_{mix} > 2000 \text{ mg/kg}$ => no classification
Acute toxicity - dermal:	Acute Toxicity Estimate $ATE_{mix} > 2000 \text{ mg/kg}$ => no classification
Acute toxicity - inhalation:	Acute Toxicity Estimate $ATE_{mix} > 20 \text{ mg/l}$ => 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.

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

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Version: 1.0

Replaces version: of 18.02.2013

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
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Disposal of the packaging

Waste codes / waste designations according to EWC

Contaminated packaging:	15 01 02 plastic packaging
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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).

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

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Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

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

Safety data sheet

according to Regulation (EC) No 1907/2006



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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. Classification in accordance with Directive 1999/45/EC

Note: This is the previous classification; products with this classification can still be in the supply chain or on the market and are allowed to be sold until 01.06.2017.

The product is not classified as hazardous in the sense of Preparation Directive 1999/45/EC.

16.2. Label elements in accordance with Directive 1999/45/EC

Note: This is the previous labelling; products with this labelling can still be in the supply chain or on the market and are allowed to be sold until 01.06.2017.

The product does not require labelling in the sense of Preparation Directive 1999/45/EC.

Danger symbols: -

Indications of danger: -

Hazard components
for labelling: -

R-phrases: -

S-phrases: -

Special labelling of certain preparations (Directive 1999/45/EC Annex V):

not necessary

16.3. Full text of code letters, hazard classes, R- and H-phrases

Code letters and categories of danger

-

Hazard classes

-

R-phrases (Indications concerning special risks)

-

H-phrases (Hazard statements)

-

16.4. 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	<u>R</u> egulation on <u>C</u> lassification, <u>L</u> abelling and <u>P</u> ackaging of Substances and Mixtures
[DE]	National German regulations

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

Issue/Revision: 10.02.2016

Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

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 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 persistent and <u>v</u> ery <u>b</u> ioaccumulative

16.5. Key literature references and sources for data

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

16.6. Training advice

Provide adequate information, instructions and training for users.

16.7. Indication of changes

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

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Activator**

Issue/Revision: 10.02.2016

Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

The information given in the safety data sheet only apply to the described product in connection with its intended use. These information are based on the latest state of our knowledge at the time of revision. In particular, they describe our product under the aspect of its hazards and safety measures to be taken. They do not constitute any guarantee of product properties and quality features.

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**

Issue/Revision: 07.01.2016

Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

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
Internet: www.alpro-medical.com

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

1.4. Emergency telephone number

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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Full text of hazard classes as well as H-phrases: see under SECTION 16.3.

Classification in accordance with Directive 1999/45/EC

see SECTION 16.1.

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® PreCleaner**

Issue/Revision: 07.01.2016

Print date: 12.02.2016

Version: 1.0

Replaces version: of 18.02.2013

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/ shower.

P305+P351+P338

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

P310

Immediately call a POISON CENTER/ doctor.

Label elements in accordance with Directive 1999/45/EC

see SECTION 16.2.

2.3. Other hazards

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

No further hazards known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

Hazardous ingredients

Chemical name	Identification numbers	Classification in accordance with Directive 67/548/EEC	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	Xi; R36	Eye Irrit. 2; H319	≥ 50
Disodium meta- silicate	CAS No: 6834-92-0 EC No: 229-912-9 Index No: 014-010-00-8 REACH Registration No: 01-2119449811-37-XXXX	C; R34 Xi; R37	Skin Corr. 1B; H314 STOT SE 3; H335	≥ 15 - < 20

Full text of code letters, hazard classes, R- and H-phrases: see SECTION 16.3.

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Version: 1.0

Replaces version: of 18.02.2013

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

Causes severe skin burns and eye damage.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO ₂)
Unsuitable extinguishing media:	Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:	Carbon monoxide (CO), carbon dioxide (CO ₂)
--------------------------------	---

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.

6.3. Methods and material for containment and cleaning up

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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

[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.

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Information on monitoring procedures

BS EN 482:2012-04-30; Title: Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents;
British version of EN 482:2012

BS EN 689:1996-04-15; Title: Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy;
British version of EN 689:1995

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

8.2. Exposure controls

Appropriate engineering controls

Technical and organisational protective measures

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

Personal protective equipment

Eye/face protection:	Safety glasses with side protection according to EN 166
Skin protection:	
Hand protection:	Protective gloves according to EN 374
	<u>Splash guard:</u>
	Disposable gloves made of nitrile rubber (thickness 0.11 mm)
	<u>Permanent contact (> 480 min):</u>
	Protective gloves made of nitrile rubber (thickness 0.40 mm)
Other skin protection:	Long-sleeved protective clothing (lab coat)
Respiratory protection:	Not necessary when used as intended.
Thermal hazards:	No special protective measures necessary.

Environmental exposure controls

Do not discharge into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	reddish, granular powder
Odour:	characteristic
Odour threshold:	no data available
pH (5 g/l H ₂ 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
Lower explosive limit:	not applicable
Upper explosive limit:	not applicable

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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 ₂ 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 _{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

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Ingredients

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

Acute toxicity - oral: LD₅₀: 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 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

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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. Classification in accordance with Directive 1999/45/EC

Note: This is the previous classification; products with this classification can still be in the supply chain or on the market and are allowed to be sold until 01.06.2017.

Corrosive; C; R34

Irritant; Xi; R37

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

16.2. Label elements in accordance with Directive 1999/45/EC

Note: This is the previous labelling; products with this labelling can still be in the supply chain or on the market and are allowed to be sold until 01.06.2017.

Danger symbols:



Indications of danger:

Corrosive

Hazard components
for labelling:

Disodiummetasilicate-pentahydrate

R-phrases: R34
R37

Causes burns.
Irritating to respiratory system.

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S-phrases:	S22	Do not breathe dust.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with water and soap.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special labelling of certain preparations (Directive 1999/45/EC Annex V):

Contains mannanase. May produce an allergic reaction.

16.3. Full text of code letters, hazard classes, R- and H-phrases

Code letters and categories of danger

C	Corrosive
Xi	Irritant

Hazard classes

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

R-phrases (Indications concerning special risks)

R34	Causes burns.
R36	Irritating to eyes.
R37	Irritating to respiratory system.

H-phrases (Hazard statements)

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

16.4. 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)
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
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
EWG	<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

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IMDG-Code	International Maritime Code for Dangerous Goods
LD ₅₀	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

16.5. Key literature references and sources for data

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

16.6. Training advice

Provide adequate information, instructions and training for users.

16.7. Indication of changes

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

The information given in the safety data sheet only apply to the described product in connection with its intended use. These information are based on the latest state of our knowledge at the time of revision. In particular, they describe our product under the aspect of its hazards and safety measures to be taken. They do not constitute any guarantee of product properties and quality features.

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BRS® Remover**

Issue/Revision: 15.06.2015

Print date: 24.02.2016

Version: 1.0

Replaces version: of 18.02.2013

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 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
Internet: www.alpro-medical.com

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

1.4. Emergency telephone number

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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

Full text of hazard classes as well as H-phrases: see under SECTION 16.3.

Classification in accordance with Directive 1999/45/EC

see SECTION 16.1.

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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.

Label elements in accordance with Directive 1999/45/EC

see SECTION 16.2.

2.3. Other hazards

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

No further hazards known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

Hazardous ingredients

Chemical name	Identification numbers	Classification in accordance with Directive 67/548/EEC	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	Xi; R36	Eye Irrit. 2; H319	≥ 50

Full text of code letters, hazard classes, R- and H-phrases: see SECTION 16.3.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: First aider: Pay attention to self-protection!

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.

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- Following eye contact: Flush eyes immediately with flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Consult an ophthalmologist.
- Following ingestion: Rinse mouth with water. Let drink plenty of water. Do not induce vomiting. Consult a physician immediately.

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

Causes serious eye irritation.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media: Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon monoxide (CO), carbon dioxide (CO₂)

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

[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

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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 (> 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 ₂ 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 ₂ O):	1.3418-1.3433	(20 °C)
Electrical conductivity (80 g/l H ₂ 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_{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

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. Classification in accordance with Directive 1999/45/EC

Note: This is the previous classification; products with this classification can still be in the supply chain or on the market and are allowed to be sold until 01.06.2017.

Irritant; Xi; R36

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

16.2. Label elements in accordance with Directive 1999/45/EC

Note: This is the previous labelling; products with this labelling can still be in the supply chain or on the market and are allowed to be sold until 01.06.2017.

Danger symbols:



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Indications of danger: Irritant

Hazard components
for labelling: -

R-phrases: R36 Irritating to eyes.

S-phrases: S24 Avoid contact with skin.

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

S39 Wear eye/face protection.

Special labelling of certain preparations (Directive 1999/45/EC Annex V):
not necessary

16.3. Full text of code letters, hazard classes, R- and H-phrases

Code letters and categories of danger

Xi Irritant

Hazard classes

Eye Irrit. Eye irritation

R-phrases (Indications concerning special risks)

R36 Irritating to eyes.

H-phrases (Hazard statements)

H319 Causes serious eye irritation.

16.4. 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)
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>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

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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 International 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> efahrstoffe (English: Technical Rules for Hazardous Substances)
UN	<u>U</u> nited Nations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
vPvB	<u>V</u> ery persistent and <u>v</u> ery <u>b</u> ioaccumulative

16.5. Key literature references and sources for data

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

16.6. Training advice

Provide adequate information, instructions and training for users.

16.7. Indication of changes

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

The information given in the safety data sheet only apply to the described product in connection with its intended use. These information are based on the latest state of our knowledge at the time of revision. In particular, they describe our product under the aspect of its hazards and safety measures to be taken. They do not constitute any guarantee of product properties and quality features.
