

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BIB forte**

Issue/Revision: 24.05.2017

Print date: 24.05.2017

Version: 1.0

Replaces version: of 25.08.2015

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

### 1.1 Product identifier

Trade name: **BIB forte**

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

Relevant identified uses: Cleaning and disinfecting agent

Intended purpose: Instrument grade disinfectant – low level. Instrument cleaner.

Highly efficient liquid concentrate to

(a) clean and disinfect non-critical instruments and devices, and

(b) clean instruments prior to the Disinfection or Sterilisation process without the problem of surface fixation with organic material (fixation of blood and proteins).

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: 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  
or **Poisons Information Centre (Phone Australia 131 126)**  
**(24h emergency call)**

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

# Safety data sheet

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



Trade name: **BIB forte**

Issue/Revision: 24.05.2017

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Replaces version: of 25.08.2015

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

Classification	Classification procedure
Skin Corr. 1B; H314	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

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

### Classification in accordance with Directive 1999/45/EC

see SECTION 16.1.

## 2.2. Label elements

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

Hazard pictograms:



Signal word:

Danger

Hazard components  
for labelling:

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9);  
N,N-Didecyl-N-methylpoly(oxyethyl)ammonium propionate (94667-33-1); 2-Aminoethanol (141-43-5)

H-phrases: H314  
H410

Causes severe skin burns and eye damage.  
Very toxic to aquatic life with long lasting effects.

EUH-phrases: EUH208

Contains piperazine. May produce an allergic reaction.

P-phrases: P280

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

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

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

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

P310 Immediately call a POISON CENTER/ doctor.

### Label elements in accordance with Directive 1999/45/EC

see SECTION 16.2.

## 2.3. Other hazards

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

No further hazards known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical characterisation:

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

# Safety data sheet

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



Trade name: **BIB forte**

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### Hazardous ingredients

Chemical name	Identification numbers	Classification in accordance with Directive 67/548/EEC	Classification in accordance with Regulation (EC) No 1272/2008	Weight %
2-(2-Butoxyethoxy) ethanol	CAS No: 112-34-5 EC No: 203-961-6 Index No: 603-096-00-8 REACH Registration No: 01-2119475104-44-XXXX	Xi; R36	Eye Irrit. 2; H319	≥ 5 - < 15
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	Xn; R22-48/22 C; R35 N; R50/53	Acute Tox. 3; H301 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor acute: 10	≥ 5 - < 15
N,N-Didecyl-N-methylpoly(oxy-ethyl)ammonium propionate	CAS No: 94667-33-1 EC No: 619-057-3 REACH Registration No: 01-2119950327-36-XXXX	Xn; R22 C; R34 N; R50/53	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor acute: 10 M-Factor chronic: 10	≥ 5 - < 15
2-Aminoethanol	CAS No: 141-43-5 EC No: 205-483-3 Index No: 603-030-00-8 REACH Registration No: 01-2119486455-28-XXXX	Xn; R20/21/22 C; R34	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 STOT SE 3; H335: C ≥ 5 %	≥ 1 - < 5
L-(+)-lactic acid	CAS No: 79-33-4 EC No: 201-196-2 REACH Registration No: 01-2119474164-39-XXXX	Xi; R38-41	Skin Irrit. 2; H315: C ≥ 10 % Eye Dam. 1; H318: C ≥ 3 % (Eye Irrit. 2; H319: 1 % ≤ C < 3 %)	≥ 1 - < 5
Tetrasodium ethylenediamine-tetraacetate	CAS No: 64-02-8 EC No: 200-573-9 Index No: 607-428-00-2 REACH Registration No: 01-2119486762-27-XXXX	Xn; R20/22 Xi; R41	Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Dam. 1; H318	≥ 1 - < 5
D-Glucopyranose, oligomers, decyl octyl glycosides	CAS No: 68515-73-1 EC No: 500-220-1 REACH Registration No: 01-2119488530-36-XXXX	Xi; R41	Eye Dam. 1; H318	≥ 1 - < 5
Edetic acid; (EDTA)	CAS No: 60-00-4 EC No: 200-449-4 Index No: 607-429-00-8	Xn; R20 Xi; R36	Acute Tox. 4; H332 Eye Irrit. 2; H319	≥ 1 - < 5
Ethane-1,2-diol	CAS No: 107-21-1 EC No: 203-473-3 Index No: 603-027-00-1 REACH Registration No: 01-2119456816-28-XXXX	Xn; R22	Acute Tox. 4; H302	≥ 1 - < 5

# Safety data sheet

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



Trade name: **BIB forte**

Issue/Revision: 24.05.2017

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Version: 1.0

Replaces version: of 25.08.2015

Piperazine	CAS No: 110-85-0 EC No: 203-803-3 Index No: 612-057-010-4 REACH Registration No: 01-2119480384-35-XXXX	Repr. Cat. 3; R62-63 C; R34 R42/43	Repr. 2; H361fd Skin Corr. 1B; H314 Resp. Sens. 1; H334 Skin Sens. 1; H317	≥ 0.2 - < 1
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Full text of code letters, hazard classes, R- and H-phrases: see SECTION 16.3.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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

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

Causes severe skin burns and eye damage. May produce an allergic reaction.

### 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> ), nitrogen oxides (NO <sub>x</sub> )
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### 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

# Safety data sheet

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



Trade name: **BIB forte**

Issue/Revision: 24.05.2017

Print date: 24.05.2017

Version: 1.0

Replaces version: of 25.08.2015

### For non-emergency personnel

Use personal protective equipment. See SECTION 8.2.

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

### For emergency responders

Use personal protective equipment. See SECTION 8.2.

## 6.2. Environmental precautions

Do not discharge into drains or rivers.

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

### Containment

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

### Cleaning up

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

### Other information

Inappropriate containment and cleaning methods are not known.

## 6.4. Reference to other sections

Information on safe handling see SECTION 7.1.

Information on personal protective equipment see SECTION 8.2.

Information on disposal see SECTION 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Precautions

Avoid contact with skin and eyes. Avoid breathing aerosols and vapours. Keep container tightly closed. Fill refill packages only in labelled original bottles. Keep disinfection tray with ready-to-use solution covered.

#### Advice on general occupational hygiene

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

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

Requirements for storage rooms and vessels: Keep only in the original container. Keep container tightly closed and kept upright to prevent any leakage.

Advice on common storage: Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions: Not necessary

Storage class ([DE] TRGS 510): LGK 8B Non-combustible corrosive hazardous substances

### 7.3. Specific end use(s)

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

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



Trade name: **BIB forte**

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Version: 1.0

Replaces version: of 25.08.2015

### 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

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>		
2-(2-Butoxyethoxy) ethanol (CAS No: 112-34-5)						
Australia						no limit value specified
EU	10	67.5	15	101.2	2006/15/EC	-
2-Aminoethanol (CAS No: 141-43-5)						
Australia	3	7.5	6	15	WESfAC	-
EU	1	2.5	3	7.6	2006/15/EC	Skin
Ethane-1,2-diol (CAS No: 107-21-1)						
Australia	-	10	-	-	WESfAC	Sk; particulate
Australia	20	52	40	104	WESfAC	Sk; vapour
EU	20	52	40	104	2000/39/EC	Skin
Piperazine (CAS No: 110-85-0)						
Australia						no limit value specified
EU	-	0.1	-	0.1	2000/39/EC	-

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

- Skin A significant uptake of the substance through the skin is possible.  
Sk Absorption through the skin may be a significant source of exposure.

#### 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

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BIB forte**

Issue/Revision: 24.05.2017

Print date: 24.05.2017

Version: 1.0

Replaces version: of 25.08.2015

## Technical and organisational protective measures

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

## Personal protective equipment

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

## Environmental exposure controls

Do not discharge into drains.

## SECTION 9: Physical and chemical properties

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

Appearance:	clear, blue liquid	
Odour:	characteristic	
Odour threshold:	no data available	
pH (undiluted):	10.0 – 11.0	(20 °C)
Melting point/freezing point:	no data available	
Initial boiling point and boiling range:	no data available	
Flash point:	> 60 °C	
Evaporation rate:	no data available	
Flammability (solid, gas):	not applicable	
Lower explosive limit:	not applicable	
Upper explosive limit:	not applicable	
Vapour pressure:	no data available	(... °C)
Vapour density:	no data available	
Relative density:	1.01 – 1.02	(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	

# Safety data sheet

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



Trade name: **BIB forte**

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Version: 1.0

Replaces version: of 25.08.2015

Oxidising properties: none

### 9.2. Other information

Refractive index nD: 1.4016-1.4096 (20 °C)

Electrical conductivity (undiluted): 4800-5800 µS/cm (20 °C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored as intended.

### 10.2. Chemical stability

The product is stable when handled and stored as intended.

### 10.3. Possibility of hazardous reactions

None known

### 10.4. Conditions to avoid

None known

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

Does not decompose when used as intended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

##### Product

Acute toxicity - oral: Acute Toxicity Estimate ATE<sub>mix</sub> = 2054 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

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

Acute toxicity - oral: LD<sub>50</sub>: 261 mg/kg; species: rat; method: OECD 401

Acute toxicity - dermal: LD<sub>50</sub>: > 600 mg/kg; species: rat; method: OECD 402

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

Acute toxicity - oral: LD<sub>50</sub>: 1157 mg/kg; species: rat; method: OECD 401

#### 2-Aminoethanol (CAS No: 141-43-5):

Acute toxicity - oral: LD<sub>50</sub>: 1515 mg/kg; species: rat; method: OECD 401

Acute toxicity - inhalation: LC<sub>50</sub>: > 1.3 mg/l; species: rat; 6 h; vapour

#### Tetrasodium ethylenediaminetetraacetate (CAS No: 64-02-8):

Acute toxicity - oral: LD<sub>50</sub>: 1780-2000 mg/kg; species: rat; method: BASF-test

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



# Safety data sheet

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



Trade name: **BIB forte**

Issue/Revision: 24.05.2017

Print date: 24.05.2017

Version: 1.0

Replaces version: of 25.08.2015

Edetic acid; (EDTA) (CAS No: 60-00-4):

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

### 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

The mixture is not classified as sensitising but it contains piperazine at a concentration between 0.2 and 1.0%. Label elements in accordance with Regulation (EC) No 1272/2008 Annex II, 2.8.:

„Contains piperazine. May produce an allergic reaction.“

### Germ cell mutagenicity

Product

No data available.

### Carcinogenicity

Product

No data available.

### Reproductive toxicity

Product

No classification. [calculation method]

Ingredients

Piperazine (CAS No: 110-85-0):

Suspected of damaging fertility. Suspected of damaging the unborn child.

### STOT-single exposure

Product

No classification. [calculation method]

Ingredients

2-Aminoethanol (CAS No: 141-43-5):

May cause respiratory irritation.

### STOT-repeated exposure

Product

No classification. [calculation method]

Ingredients

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

NOAEL: 9 mg/kg; Application Route: Oral; Exposure period: 90 d; species: rat

NOAEL: 20 mg/kg; Application Route: Food; Exposure period: 90 d; species: dog

NOAEL: 15 mg/kg; Application Route: Skin; Exposure period: 90 d; species: rat

# Safety data sheet

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



Trade name: **BIB forte**

Issue/Revision: 24.05.2017

Print date: 24.05.2017

Version: 1.0

Replaces version: of 25.08.2015

### Aspiration hazard

Product

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Very toxic to aquatic life. [calculation method]

Very toxic 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.

### 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 01\* aqueous washing liquids and mother liquors

#### 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).

# Safety data sheet

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



Trade name: **BIB forte**

Issue/Revision: 24.05.2017

Print date: 24.05.2017

Version: 1.0

Replaces version: of 25.08.2015

### SECTION 14: Transport information

#### 14.0. Transport classification

Dangerous good in sense of the transport regulations in road traffic (ADR), railway traffic (RID), inland waterway traffic (ADN), maritime traffic (IMDG-Code) and air traffic (ICAO-TI/IATA-DGR).

#### 14.1. UN number

UN 1760

#### 14.2. UN proper shipping name

**ADR/RID/ADN**

CORROSIVE LIQUID, N.O.S. (Dodecyldipropylenetriamine, Trialkylethoxyammoniumpropionate)

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

CORROSIVE LIQUID, N.O.S. (Dodecyldipropylenetriamine, Trialkylethoxyammoniumpropionate)

#### 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: Yes

**IMDG-Code**

Marine Pollutant: Yes

#### 14.6. Special precautions for user

Not necessary.

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

Not applicable for product as supplied.

#### 14.8. Further information

Transport category according to ADR section 1.1.3.6: 3

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

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

Classification code according to ADR/RID/ADN: C9

Hazard identification number according to  
ADR/RID: 80

Tunnel restriction code according to ADR/RID: E

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

EmS codes: F-A, S-B

# Safety data sheet

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



Trade name: **BIB forte**

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Replaces version: of 25.08.2015

### SECTION 15: Regulatory information

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

##### EU-Regulations

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

not applicable

REGULATION (EC) No 850/2004 on persistent organic pollutants and amending Directive 79/117/EEC

not applicable

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

not applicable

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

Hazard category	Qualifying quantity (tonnes) (lower-tier establishment)	Qualifying quantity (tonnes) (upper-tier establishment)
E1 ENVIRONMENTAL HAZARDS	100	200

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

Observe employment restrictions for pregnant and nursing mothers.

#### 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

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.*

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Danger symbols:



Indications of danger:

Corrosive

Hazard components  
for labelling:

Dodecylidipropylenetriamine, Trialkylethoxyammoniumpropionate

R-phrases: R34

Causes burns.

S-phrases: 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 piperazine. 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
N	Dangerous for the environment
Repr. Cat. 3	Toxic for reproduction category 3
Xi	Irritant
Xn	Harmful

### Hazard classes

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic hazard
Aquatic Chronic	Long-term aquatic hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitization
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)

### R-phrases (Indications concerning special risks)

R20	Harmful by inhalation.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R42/43	May cause sensitization by inhalation and skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **BIB forte**

Issue/Revision: 24.05.2017

Print date: 24.05.2017

Version: 1.0

Replaces version: of 25.08.2015

R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.

## H-phrases (Hazard statements)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## 16.4. 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
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
IMDG-Code	<u>I</u> nternational <u>M</u> aritime <u>C</u> ode 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)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
N.O.S.	Not otherwise specified

# Safety data sheet

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



Trade name: **BIB forte**

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NOAEL	<u>N</u> o <u>O</u> bserved <u>A</u> dverse <u>E</u> ffect <u>L</u> evel (dose at which no adverse effect is found)
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 <u>R</u> estriction 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> efährstoffe (English: Technical Rules for Hazardous Substances)
UN	<u>U</u> nited <u>N</u> ations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
vPvB	<u>V</u> ery <u>p</u> ersistent and <u>v</u> ery <u>b</u> ioaccumulative
WESfAC	<u>W</u> orkplace <u>E</u> xposure <u>S</u> tandards for <u>A</u> irborne <u>C</u> ontaminants

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

### 16.6. 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).

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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.

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