

## 1. Identification

### Product identifier

H.E.L.P. BicEI

### **Use of the substance/mixture**

Solution for extracorporeal bicarbonate plasma dialysis

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

Company name: B. Braun Avitum AG  
Street: Schwarzenberger Weg 73 - 79  
Place: D-34212 Melsungen  
Responsible Department: Zentrale Service-Bereiche / Logistik und Supply Chain  
Telephone: +49 (0) 5661 / 71-4422  
E-Mail: logistics.service@bbraun.com  
Responsible for the safety data sheet: sds@gbk-ingelheim.de

**Emergency phone number:** INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
(USA domestic) 1 800 535 5053 or international (001) 352 323 3500

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## 2. Hazard(s) identification

### Classification of the chemical

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

### Label elements

#### **Additional advice on labelling**

The product does not require a hazard warning label.

#### **Hazards not otherwise classified**

Not known.

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## 3. Composition/information on ingredients

### Mixtures

#### **Chemical characterization**

Aqueous solution

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## 4. First-aid measures

### Description of first aid measures

#### **General information**

Remove contaminated soaked clothing immediately.  
If you feel unwell, seek medical advice.

#### **After inhalation**

Not hazardous by inhalation.

#### **After contact with skin**

Wash hands with water as a precaution.

#### **After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

#### **After ingestion**

Rinse out mouth and give plenty of water to drink.  
Consult a physician.

#### **Most important symptoms and effects, both acute and delayed**

OSHA Hazard Communication: This material is not considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

#### **Indication of any immediate medical attention and special treatment needed**

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.  
Treat symptoms.

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## 5. Fire-fighting measures

### Extinguishing media

#### **Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.  
Any extinguishing means and measures are acceptable.

### Specific hazards arising from the chemical

Not known.

### Special protective equipment and precautions for fire-fighters

No special protective equipment required.

### **Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

No special precautions required.

### Environmental precautions

This concentrate is not allowed to be released into the sewerage, surface water or groundwater.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Shovel into suitable container for disposal.  
Flush rests with sufficient amount of water.

### Reference to other sections

Observe protective instructions (see Sections 7 and 8).  
Information for disposal look up chapter 13.

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## 7. Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

Avoid contact with eyes.

#### **Advice on protection against fire and explosion**

No special protective measures against fire required.

### Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep container tightly closed.  
Keep tightly closed.

#### **Advice on storage compatibility**

Incompatible with acids.

### Specific end use(s)

Solution for extracorporeal bicarbonate plasma dialysis

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## 8. Exposure controls/personal protection

### Control parameters

### Exposure controls

#### **Protective and hygiene measures**

When using do not eat, drink or smoke.  
Avoid contact with eyes.  
Wash hands before breaks and at the end of workday.  
Take off immediately all contaminated clothing.

#### **Eye/face protection**

Safety goggles with side protection.

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### **Hand protection**

Protective gloves resistant to chemicals made off natural-rubber latex, Minimum coat thickness 0.6 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Lapren 706> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

### **Skin protection**

Not required under normal use.

### **Respiratory protection**

No personal respiratory protective equipment normally required.

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## **9. Physical and chemical properties**

### **Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	Colourless
Odor:	Odorless

pH-Value (at 20 °C):	7,0 - 8,0
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### **Changes in the physical state**

Initial boiling point and boiling range:	> 100 °C
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Flash point:	n.a.
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Lower explosion limits:	n.a.
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Ignition temperature:	n.a.
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Vapor pressure:	n.d.
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Density (at 20 °C):	approx. 1,0 g/cm <sup>3</sup>
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Water solubility: (at 20 °C)	Completely miscible	OECD 116
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### **Other information**

No data available.

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## **10. Stability and reactivity**

### **Reactivity**

No decomposition if stored and applied as directed.

### **Chemical stability**

Stability:	Stable
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Stable under normal conditions.

### **Possibility of hazardous reactions**

Hazardous reactions:	Will not occur
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No hazardous reactions known.

### **Conditions to avoid**

Not known.

### **Incompatible materials**

No materials to be especially mentioned.

### **Hazardous decomposition products**

No hazardous decomposition products known.

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## **11. Toxicological information**

### **Information on toxicological effects**

#### **Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

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**Acute toxicity**

Based on available data, the classification criteria are not met.  
No toxicological data available.

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitizing effects**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity (STOT) - single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

Carcinogenicity (NTP): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (OSHA): Not listed

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Additional information on tests**

This product is classified in accordance with the GHS regulations.

**Practical experience**

**Other observations**

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

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**12. Ecological information**

**Ecotoxicity**

Ecological data are not available.

**Persistence and degradability**

No data available.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

No data available.

**Other adverse effects**

Slightly water hazardous.

**Further information**

If handled and used properly, no adverse ecological effects are to be expected.

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**13. Disposal considerations**

**Waste treatment methods**

**Advice on disposal**

Can be landfilled or incinerated, when in compliance with local regulations.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

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**14. Transport information**

**US DOT 49 CFR 172.101; Marine transport (IMDG); Air transport (ICAO-TI/IATA-DGR):**

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**UN number:**

Non hazardous material as defined by the transport regulations.

**UN proper shipping name:**

Non hazardous material as defined by the transport regulations.

**Transport hazard class(es):**

Non hazardous material as defined by the transport regulations.

**Packing group:**

Non hazardous material as defined by the transport regulations.

**Environmental hazards**

Non hazardous material as defined by the transport regulations.

**Special precautions for user**

Non hazardous material as defined by the transport regulations.

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

Non hazardous material as defined by the transport regulations.

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## 15. Regulatory information

### **U.S. Regulations**

#### **National Inventory TSCA**

All of the components are listed on the TSCA inventory.

#### **State Regulations**

##### **Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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## 16. Other information

### **Hazardous Materials Information Label (HMIS)**

Health: 0

Flammability: 0

Physical Hazard: 0

### **NFPA Hazard Ratings**

Health: 0

Flammability: 0

Reactivity: 0

Unique Hazard:

Revision date: 01.06.2015

Revision No: 1,0

### **Abbreviations and acronyms**

IMDG = International Maritime Code for Dangerous Goods

International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

DOT = Department of Transportation

TDG = Transport of Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

CAS = Chemical Abstract Service

ISO = International Organization for Standardization

LD = Lethal dose

LC = Lethal concentration

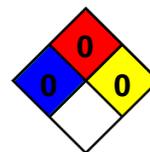
EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

### **Other data**

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.



**Safety Data Sheet** according to 29 CFR 1910.1200(g)

B. Braun Avitum AG

**H.E.L.P. BicEI**

Revision date: 01.06.2015

Revision No: 1,0

Product code: 00056-0339

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The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*