

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Bromelin solution

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

### 1.1. Product identifier

Bromelin solution  
Order-no. 6961

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

#### Use of the substance/mixture

Enzyme solution for use in blood grouping serology

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

Company name: BAG Diagnostics GmbH  
Street: Amtsgerichtsstr. 1-5  
Place: D-35423 Lich  
Telephone: +49 (0)6404 925-100      Telefax: +49 (0)6404 925-460  
e-mail: [info@bag-diagnostics.com](mailto:info@bag-diagnostics.com)  
Contact person: Dr. Evelyn Sachsenberg      Telephone: +49 (0)6404 925-217  
e-mail: [e.sachsenberg@bag-diagnostics.com](mailto:e.sachsenberg@bag-diagnostics.com)  
Internet: [www.bag-diagnostics.com](http://www.bag-diagnostics.com)

### 1.4. Emergency telephone number:

Extern: +49 (0)6131-19-240 Medizinische Klinik der Universität Mainz  
Intern: +49 (0)171-2157379

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

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

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Special labelling of certain mixtures

EUH208      Contains Bromelain, juice. May produce an allergic reaction.  
EUH210      Safety data sheet available on request.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Enzyme solution

#### Hazardous components

CAS No	Chemical name	Quantity
	EC No      Index No      REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
9001-00-7	Bromelain, juice	< 1%
	232-572-4      647-005-00-X	
	Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Resp. Sens. 1; H319 H335 H315 H334	

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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#### After inhalation

Not applicable

#### After contact with skin

Wipe off affected area and flush with plenty of soap and water.

#### After contact with eyes

Immediately flush eyes with plenty of water the eyelids open.

#### After ingestion

Rinse mouth and drink plenty of water. In case of indisposition seek medical advice.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Select according to surrounding materials.

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

None

### SECTION 6: Accidental release measures

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

Avoid skin and eye contact.

For personal protective equipment see heading 8.

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

Collect spilled product with absorbing material (paper towels, cellulose), remove for disposal. Wipe the area until clean and dry.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

For In-Vitro-Diagnostic Use according to the instructions for use. Treatment as potentially infectious.

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

##### Requirements for storage rooms and vessels

Store in tightly closed containers at 2...8°C.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

##### Protective and hygiene measures

The usual safety rules and precautionary measures for handling chemical and potentially infectious material must be adhered to. Protective work clothing should be worn. Do not eat or drink while working with the product. After working with the product, disinfect hands, wash hands carefully and remove protective work clothing.

##### Eye/face protection

Not necessary

##### Hand protection

Disposable laboratory gloves

##### Respiratory protection

Not necessary

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#### SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	clear
Odour:	odourless

##### Test method

pH-Value (at 25 °C): 4,0 - 4,5

##### Changes in the physical state

Initial boiling point and boiling range: 100 °C

Flash point: not applicable

Lower explosion limits: not applicable

Density: not available

#### SECTION 10: Stability and reactivity

##### 10.4. Conditions to avoid

Store below 2° C and/or above 8° C. Fire and excessive heat. Freezing and thawing may decompose the product.

##### 10.5. Incompatible materials

Lead and Copper salt

##### 10.6. Hazardous decomposition products

Sodium azide when heated to decomposition liberates nitrogen gas and sodium, which is explosive.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity

Toxicological dates for the products are not available. The product is classified according to Regulation (EC) No. 1272/2008 as not hazardous product.

###### Further information

Nevertheless the product should be handled with the usual caution whilst handling biological products.

#### SECTION 12: Ecological information

##### 12.1. Toxicity

Data regarding ecological effects of this product are not available. If handled and use appropriately, ecological problems are not expected to occur.

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### Advice on disposal

In case there are residues to be disposed of (the quantities involved may only be a few Milliliters), these should be placed in disinfectant solution before disposal.

###### Contaminated packaging

Disposal is to be made in accordance with official local regulations.

Uncontaminated and completely emptied packaging may be treated as domestic waste or recycling.

#### SECTION 14: Transport information

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### Other applicable information

Cooled at +2... 8°C. No other special measures need be taken for transporting the products.

## SECTION 15: Regulatory information

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

#### National regulatory information

#### Additional information

This MSDS meets the requirements of Regulation (EC) Nr. 1907/2006

## SECTION 16: Other information

### Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
EUH208	Contains Bromelain, juice. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

### Further Information

The information supplied here is based on data considered accurate and on current state of knowledge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information or the use of any materials designated. It does not establish any contractual relationship.

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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.)*