

# Safety Data Sheet following 1907/2006/EC Bromelin for Erytype

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Date of last revision: August 2012

## 1 Chemical product and company identification

### 1.1 Product Group and Products

Product Group: Erytype supplement  
Product(s), Art.-No.: • Bromelin for Erytype, 806 210 100 (10 x 10 ml)

### 1.2 Manufacturer

Company: Bio-Rad Medical Diagnostics GmbH • Industriestr. 1 • 63303 Dreieich • Germany  
Telephone: +49(0)6103 3130-0 • Fax: +49 (0)6103 3130-724

Contact for information: Productmanagement Transfusion  
Telephone: +49(0)6103 3130-611 • Fax: +49(0)6103 3130-724  
e-mail: techsupport.bmd@bio-rad.com

### 1.3 Use of the substance/preparation

Reagents for biochemical applications, industrial, commercial

### 1.4 Emergency Phone see Manufacturer / Supplier

- This MSDS is listed with CHEMTREC 1-800-424-9300. Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product. (USA only)
- External Phone: +49(0)6131 19-240  
Medizinische Klinik und Poliklinik der Universität Mainz

### 1.5 Principal demands according to Art. 32 REACH

- Registration number(s) --
- Authorisation none
- Restrictions none

## 2 Information on composition

### 2.1 The product is composed of the following important ingredients / Hazardous ingredients:

| Conc.<br>(% Mass) | IUPAC-Name | CAS-No. | EEC-No. | EINECS-No. | Warning-Signs | R-Phrases |
|-------------------|------------|---------|---------|------------|---------------|-----------|
| ---               | ---        | ---     | ---     | ---        | ---           | ---       |

### 2.2 Chemical Characterization of composition

Aqueous solution of inorganic and organic compounds, antibiotics and protein.

## 3 Hazards identification

No hazardous product as specified in directives 67/548 EG or 199/45/EC.

## 4 First aid measures

General instructions: ---  
After inhalation: ---  
After skin contact: Wash off with water.  
After eye contact: Rinse out with water.  
After ingestion: Make victim drink plenty of water. Induce vomiting.  
Summon doctor if feeling unwell.  
Notes to the physician: Show physician this safety data sheet.

## 5 Fire fighting measures

Suitable extinguishing media: To suit environment.  
Not to be used for safety reasons: None known  
Special exposure hazards arising from substance or combustion products: None known  
Special protective equipment required for fire-fighting: No further requirements  
Other information: ---

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## 6 Accidental release measures

Person-related precautionary measures: ---  
Procedures for cleaning/absorption: Take up with liquid-absorbent material.  
Forward for disposal. Clean up affected area.

## 7 Handling and storage

Handling: No further requirements  
Storage: Store tightly closed. Cool at +2 to +8°C.

## 8 Exposure controls and personal protection

### 8.1 Specific control parameter of components (Exposure limits, FR Germany)

MAK: ---  
TRK: ---  
BAT: ---

### 8.2 Personal protective equipment

Respiratory protection: Required when vapors/aerosols are generated.  
Eye protection: Safety glasses  
Hand protection: Laboratory gloves  
Industrial hygiene: Change contaminated clothing. Precautionary skin protection is recommended. Wash hands after working with substance.

## 9 Physical and chemical properties

Form: Liquid  
Color: Colorless to yellowish  
Odor: Odorless

### 9.1 Change of state

Boiling temperature: Near 100 °C  
Melting temperature: ---  
Flash point: ---  
Decomposition temperature: ---  
Ignition temperature: ---  
Auto flammability: ---  
Explosion limits: Lower: --- Upper: ---  
Oxidizing properties: ---  
Vapor pressure: ---  
Density: approx. 1 g/cm<sup>3</sup> (20°C)  
Bulk density: ---  
Solubility: in water: Soluble  
in Ethanol: Soluble  
pH value: ---  
Distribution coefficient: ---

## 10 Stability and reactivity

Conditions to be avoided: Not known  
Substances to be avoided: No information available  
Hazardous decomposition products: No information available  
Further information: None

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### 11 Toxicological information

#### 11.1 Acute toxicity

Quantitative data on the toxicity of this product are not available.

#### 11.2 Further toxicological information

Sub acute to chronicle toxicity: ---

Other Notes:

No toxic effects are to be expected when the product is handled appropriately.

Notice „Other information“

(item 16)

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### 12 Ecological information

#### 12.1 Biologic degradation

Quantitative data on the ecological effect of this product are not available.

#### 12.2 Behavior in environmental compartments: Not determined

#### 12.3 Ecotoxic effects

Toxic effects on environment can not be excluded if the product is not handled or disposed appropriately.

#### 12.4 Further ecological data:

CSB: --- mg/g

BSB<sub>5</sub>: --- mg O<sub>2</sub>/l

Halogene: ---

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### 13 Disposal considerations

#### 13.1 Product

Disposal used product in compliance with its biological contamination. There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations, and in the federal Republic of Germany also by the individual Federal States. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

#### 13.2 Contaminated Packaging

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

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## 14 Transport information

### 14.1 Land transport

|                          |      |                    |     |
|--------------------------|------|--------------------|-----|
| RID/ADR/GGVS/GGVE class: | none | Number and letter: | --- |
| Warning board:           | ---  | Number:            | --- |
| UN-No:                   | ---  |                    |     |
| Name of material:        | ---  |                    |     |

### 14.2 River transport

|                           |     |                    |     |
|---------------------------|-----|--------------------|-----|
| GGVBinSch/ADN/ADNR class: | --- | Number and letter: | --- |
| Category:                 | --- |                    |     |
| Correct technical name:   | --- |                    |     |
| Notes:                    | --- |                    |     |

### 14.3 Sea transport

|                         |         |        |     |
|-------------------------|---------|--------|-----|
| IMDG/GGVSee class:      | ---     | UN-No: | --- |
| PG:                     | ---     | EmS:   | --- |
| MFAG:                   | ---     |        |     |
| Marine Pollutant:       | yes ( ) | no ( ) |     |
| Correct technical name: | ---     |        |     |
| Notes:                  | ---     |        |     |

### 14.4 Air transport

|                         |      |           |     |
|-------------------------|------|-----------|-----|
| ICAO/IATA class:        | None | UN/ID-No: | --- |
| PG:                     | ---  |           |     |
| Correct technical name: | ---  |           |     |
| Notes:                  | ---  |           |     |

## 15 Regulatory information

### 15.1 Labeling according to EC Directives

|               |  |
|---------------|--|
| Symbol:       | ---  |
| Warning sign: | No hazardous product as specified in directives 67/548 EG or 199/45/EC |
| Contains:     | ---  |
| R-Phrases:    | ---  |
| S-Phrases:    | ---  |

### 15.2 German regulations

|                        |   |
|------------------------|---|
| App.II StörfallIV No.: | ---   |
| TA air No./class:      | ---   |
| VbF:                   | ---   |
| MAK-value:             | ---   |
| Water pollution class: | 1- low hazardous to waters (own classification) |

Data sheet of the Chemical Professional Association: M050 Dealing with harmful substances

## 16 Other information

The information herein is based on our current level of knowledge and relates to the product in the state in which it is delivered. They are intended to describe our products from the point of view of safety requirements and are not intended to guarantee any particular properties.