

# Safety Data Sheet following 1907/2006/EC Reagent Red Blood Cells

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Date of last revision: August 2012

## 1 Chemical product and company identification

### 1.1 Product Group and Products

Product Group:	Reagent Red Blood Cells	
Product(s), Art.-No.:	Biotestcell 1 & 2	816 014 100
	Biotestcell 3	816 085 100
	Biotestcell-I 8	816 020 100
	Biotestcell-I 11	816 021 100
	Biotestcell-I 11 Plus	816 022 100
	Biotestcell Pool	816 065 100
	Coombscell-E	816 030 100

### 1.2 Manufacturer

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. (%Mass)	IUPAC-Name	CAS-No.	EEC-No.	EINECS-No.	Warning Signs	R- Phrases
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### 2.2 Chemical characterization of composition

Red Blood cells suspended in modified Alsevers solution (Chloramphenicol, Neomycin Sulfat, Amphotericin B).

## 3 Hazards identification

Harmful if swallowed.

S-Phrases: S36/37/39      Wear suitable protective clothing, gloves and eye/face protection.

## 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.

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## 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:** ---

## 6 Accidental release measures

**Person-related precautionary measures:** ---  
**Procedures for cleaning/absorption:** 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 (FR Germany):** ---  
**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:** Light red  
**Odor:** Odorless

### 9.1 Change of state:

**Boiling temperature:** Near 100 °C  
**Melting temperature:** Not available  
**Flash point:** Not applicable  
**Decomposition temperature:** Not applicable  
**Ignition temperature:** Not applicable  
**Auto flammability:** Not applicable  
**Explosion limits** Lower: Not applicable Upper: Not applicable  
**Oxidizing properties:** Not applicable  
**Vapor pressure:** Not applicable  
**Density:** ca. 1 g/cm<sup>3</sup> (20°C)  
**Bulk density:** Not applicable  
**Solubility** in water: Soluble in Ethanol: Soluble  
**pH value:** Not available  
**Distribution coefficient:** Not available

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## 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

## 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 chronic toxicity:	---
Other Notes:	No toxic effects are to be expected when the product is handled appropriately.
Notice „Other information“	(item 16)

## 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
Halogens:	---	

Do not allow to enter drinking water supplies, waste water or soil!

## 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:  
Name:  
Contains:  
R-Phrases: 22  
S-Phrases: 36/37/39      Wear suitable protective clothing, gloves and eye/face protection.

### 15.2 German regulations

App.II StörfallIV No.: ---  
TA Luft 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.

All materials of human origin used in this products were tested for HbsAg anti-HCV and anti-HIV-1/2 using methods licensed by FDA and proved non-reactive. Nevertheless, all products derived from human blood should be regarded as potential transmitters of hepatitis, HIV or other infectious diseases. Appropriate safety precautions are recommended.