Safety data sheet following 1907/2006/EC
Monoclonal Antibodies, human

Date of revision: August 2012

1 Chemical product and company identification

1.1 Product Group and Products

Product Group: Monoclonal Antibodies, human

Product(s), Art.-No.:

● Seraclone® Anti-D (RH1) 226	802 042 100
● Seraclone® Anti-D (RH1) Blend	802 033 100
● Seraclone® Anti-C (RH2)	802 280 100
● Seraclone® Anti-c (RH4)	802 346 100
● Seraclone® Anti-E (RH3)	802 336 100
● Seraclone® Anti-e (RH5)	802 370 100
● Seraclone® Anti-Jk^a (JK1)	808 179 100
● Seraclone® Anti-Jk^b (JK2)	808 184 100
● Seraclone® Anti-Fy^a (FY1)	808 188 100
● Seraclone® Anti-K (KEL1)	808 090 100
● Seraclone® Anti-S (MS3)	808 052 100
● Seraclone® Anti-s (MS4)	808 068 100
● Solidscreen II Anti-D Blend	806 530 100

1.2 Manufacturer

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

Contact for information: Productmanagement Transfusion
Telephon: +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
0.1	Sodium azide NaN_3	26628-22-8	011-004-00-7	247-852-1	T +	28-32

2.2 Chemical characterization of composition

Aqueous solution of inorganic, organic compounds and proteins.

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.

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:	Non-combustible

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:	0,2 mg/m³ (sodium azide)
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. Wash hands after working with substance.

9 Physical and chemical properties

Form:	Liquid
Color:	Colorless
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:	---
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

11 Toxicological information

11.1 Acute toxicity

Harmful caused by the ingredient NaN_3.
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)

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

Biological effects:	Toxic for aquatic organisms. Sodium azide forms toxic mixtures in water, dilution measures notwithstanding. The following applies to azides in general: Azides are toxic for aquatic organisms.
Biological effects:	fish: L. macrochirus toxic as from 1.5 ppm in 24 h Approx. acute toxicity for lower organisms: 5 mg/l Approx. acute toxicity for cold-blooded animals: 1 mg/l (Values stated for pure sodium azide.)

12.4 Further ecological data:

CSB:	--- mg/g
BSB_5:	--- mg O_2/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.

14 Transport information

14.1 Land transport

RID/ADR/GGVS/GGVE class:	none	Number and letter:	---
Warning board:	---	Number:	---
UN-No:	---		
Name of material:	Biological products thought likely to contain infectious substances.		

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:	Biological products thought likely to contain infectious substances.		
Notes:	---		

15 Regulatory information

15.1 Labeling according to EC Directives

Symbol:		---
Name:		---
Contains:		NaN_3
R-Phrases:	22	Harmful if swallowed.
S-Phrases:	36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

15.2 German regulations

App.II StörfallV 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 o view of safety requirements and are not intended to guarantee any particular properties.

For practical purposes, the risk of contamination with infectious agents can be excluded by virtue of the use of biotechnology production methods. Nevertheless, all the test reagents should be treated as a potential health hazard and be handled accordingly.