SAFETY DATA SHEET
SERUM BLOCK

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

1.1. Product identifier
Product name
SERUM BLOCK

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
For research use only.

1.3. Details of the supplier of the safety data sheet
Supplier
Web: www.bio-rad-antibodies.com
Bio-Rad
Endeavour House
Langford Business Park
Kidlington
Oxford
OX5 1GE
Tel. +44 (0)1865 852700
antibody_safetydatasheets@bio-rad.com

Contact person
Technical Services Manager

1.4. Emergency telephone number
Emergency telephone
+1 7037415970 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards
Not Classified
Health hazards
Not Classified
Environmental hazards
Not Classified

Human health
This product is harmful if swallowed.

2.2. Label elements
Hazard statements
NC Not Classified

2.3. Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Composition comments
No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

SECTION 4: First aid measures
SERUM BLOCK

4.1. Description of first aid measures

Inhalation  Due to the small packaging, the risk of inhalation is minimal. If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Ingestion  Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. Due to the small packaging, the risk of ingestion is minimal.

Skin contact  Due to the small packaging, the risk of skin contact is minimal. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

Eye contact  Due to the small packaging, the risk of eye contact is minimal. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation  May cause cause coughing or mild irritation.

Ingestion  May cause discomfort if swallowed.

Skin contact  Prolonged skin contact may cause redness and irritation.

Eye contact  May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor  No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media  The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards  There are no known reactivity hazards associated with this product. No unusual fire or explosion hazards noted.

Hazardous combustion products  Does not decompose when used and stored as recommended.

5.3. Advice for firefighters

Protective actions during firefighting  No specific firefighting precautions known.

Special protective equipment for firefighters  Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions  Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

6.2. Environmental precautions

Environmental precautions  Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up  Absorb spillage with non-combustible, absorbent material. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
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6.4. Reference to other sections

Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Keep only in the original container. Store at specified temperature. Refer to product label.

Storage class
Refer to product datasheet.

7.3. Specific end use(s)

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits
SODIUM AZIDE
Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³
Short-term exposure limit (15-minute): WEL 0.3 mg/m³ as NaN₃
Sk
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

Hygiene measures
Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection
No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and Chemical Properties
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9.1. Information on basic physical and chemical properties

Appearance  Liquid.
Colour       Blue.
Odour        No characteristic odour.
PH           pH (concentrated solution): 7.2
Melting point Not determined.
Initial boiling point and range <100 @°C @ 760 mm Hg
Flash point  Not applicable.
Evaporation rate Not determined.
Upper/lower flammability or explosive limits Not applicable.
Vapour pressure Not determined.
Vapour density Not determined.
Relative density Not determined.
Solubility(ies) Soluble in water.
Partition coefficient Not determined.
Auto-ignition temperature Not determined.
Decomposition Temperature Not determined.
Viscosity     Not determined.
Explosive properties Not determined.
Oxidising properties Not determined.

9.2. Other information

Other information  None.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity  There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability    Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions  Will not polymerise.

10.4. Conditions to avoid
Conditions to avoid  Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials
Materials to avoid  Strong acids.

10.6. Hazardous decomposition products
Hazardous decomposition products

Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects

No information available.

Other health effects

IARC Not Listed.

Acute toxicity - oral

Notes (oral LD₅₀)

Not determined.

ATE oral (mg/kg)

5,000.0

Skin corrosion/irritation

Human skin model test

Not determined.

Extreme pH

7.2

Serious eye damage/irritation

Not determined.

Germ cell mutagenicity

Genotoxicity - in vitro

Not determined.

Carcinogenicity

Carcinogenicity

Not determined.

Reproductive toxicity

Reproductive toxicity - fertility

Not determined.

Specific target organ toxicity - single exposure

STOT - single exposure

Not determined.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Not determined.

Aspiration hazard

Not determined.

General information

Knowledge about health hazard is incomplete.

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion

May cause discomfort if swallowed.

Skin contact

Liquid may irritate skin.

Eye contact

Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health hazards

Because of the product's quantity and composition, the health hazard is regarded as low.

Route of exposure

Ingestion. Skin and/or eye contact

Toxicological information on ingredients.

SODIUM AZIDE

Acute toxicity - oral
SERUM BLOCK

ATE oral (mg/kg) 5.0

SECTION 12: Ecological Information

Ecotoxicity There are no data on the ecotoxicity of this product.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: Daphnia pulex (Water flea) - 4.2 mg/l, Daphnia magna

Ecological information on ingredients.

SODIUM AZIDE

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No information available

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Road transport notes Not classified.
# SERUM BLOCK

**Rail transport notes**  
Not classified.

**Sea transport notes**  
Not classified.

**Air transport notes**  
Not classified.

## 14.1. UN number

Not applicable.

## 14.2. UN proper shipping name

Not applicable.

## 14.3. Transport hazard class(es)

Not applicable.

## 14.4. Packing group

Not applicable.

## 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

## 14.6. Special precautions for user

Not applicable.

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable.

## SECTION 15: Regulatory information

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

**EU legislation**  

**Guidance**  

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**General Information**  
Only trained personnel should use this material.

**Revision date**  
20/09/2018

**Revision**  
4

**Supersedes date**  
06/05/2016

**SDS number**  
10362

**Risk phrases in full**  
R22 Harmful if swallowed.
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.