

## Safety Data Sheet

according to Regulation (EC) No. 1272/2008  
released 2022/5/11



### GENERAL SECTION

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifiers

Product name: BIG ENDOTHELIN-1 ELISA  
ENZYME IMMUNOASSAY FOR THE QUANTITATIVE DETERMINATION  
OF HUMAN BIG ENDOTHELIN-1  
IN SERUM, CITRATE PLASMA, EDTA PLASMA OR HEPARIN PLASMA  
Product Number: CAT. NO. BI-20082H, 12 X 8 TESTS  
Brand: Biomedica Medizinprodukte GmbH

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

Identified uses: FOR RESEARCH USE ONLY  
NOT FOR USE IN DIAGNOSTIC PROCEDURES

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

Company: Biomedica Medizinprodukte GmbH, A-1210 Wien, Divischgasse 4  
Telephone: +43/1/291 07 45, Fax: +43/1/291 07 6389  
E-mail: [info@bmgrp.com](mailto:info@bmgrp.com)  
Prepared by Biomedica Slovakia s.r.o., 8410 Bratislava, Drobneho 27

##### 1.4. Emergency telephone number

Austria: +43-1-4064343  
EU and Asia: 112  
Americas: 911

##### 1.5. Further information

All reagents sold by BIOMEDICA must be handled only by qualified laboratory personal. All preservative substances used in our products are there in too low concentrations to constitute any danger and standard laboratory precautions should suffice for effective protection. Nonetheless, in the case of unusual exposure, the form(s), furnished in the appendix, provoke(s) all the necessary information.

##### 1.6. Partition of section 2-16 of the data safety sheet in specific forms

The following are hazardous substances present in this product:

Hazardous substance	Substance part of the following ELISA kit component, [Identification name of vial]	Quantity/ concentration of (hazardous) substance	Material Safety data sheet [no.]	Page of this MSDS
Substrate (TMB solution)	TMB	0.1%	1	2
Stop Solution	STOP	2.95%	2	8
Antibody (anti human Big ET antibody)	AB	3.2%	3	15
Conjugate (Streptavidin-HRPO)	CONJ	1.41%	4	22
Standards, Control	STD, CTRL	100%	5	29
Wash buffer concentrate 20x	WASHBUF	9.08%	6	35

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### SPECIFIC SECTION

#### Material safety data sheet no.1

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifiers

Kit component name: TMB substrate  
component ID: TMB  
Brand: Biomedica Medizinprodukte GmbH

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

Identified uses: AS A SINGLE COMPONENT FOR RESEARCH USE ONLY

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

Company: Biomedica Medizinprodukte GmbH, A-1210 Wien, Divischgasse 4  
Telephone: +43/1/291 07 45, Fax: +43/1/291 07 6389  
E-mail: [info@bmgrp.com](mailto:info@bmgrp.com)

#### 2. HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

Although it is not classified as hazardous according to the European Regulation (EC) No. 1272/2008 the product should be handled with the usual care for all chemicals, in order to avoid synergistic effects.

##### 2.2. Label elements

###### Labeling according Regulation (EC) No 1272/2008 [CLP]

Pictogram none  
Signal word none  
Supplemental hazard statements none

##### 2.3. Other hazards

None

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.1. Substances

See section 3.2

##### 3.2. Mixtures

###### Dangerous components:

Component	Classification R-phrases	Percentage
<b>3,3',5,5'-Tetramethylbenzidine</b>		
EINECS: 259-364-6 CAS-NR: 54827-17-7	H315, H319, H335	<0.06%
<b>Triethylenetetramine</b>		
EINECS: 203-950-6 CAS-NR: 112-24-3	H312, H314, H317, H412	<0.06%

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<b>Hydrogen peroxide</b>		
EINECS: 231-765-0	Ox. Liq. 1; . Skin	<0.03%
CAS-NR: 7722-84-1	Corr. 1A; H302, H318	

For the full text of the H-statements mentioned in this section, see section 16.

### 4. FIRST AID MEASURES

#### 4.1. Description of the first aid measures

##### General advice

Contaminated clothing should be washed prior to next use. Consult a physician, show this safety data sheet to the doctor in attendance.

##### In case of skin contact

After contact with skin carefully wash with water.

##### In case of eye contact

After contact with the eyes carefully rinse the opened eye with running water for several minutes and consult a physician.

##### If swallowed

After swallowing, rinse mouth and drink water. Consult a physician.

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

No data available.

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

No data available.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

No data available.

#### 5.3. Advice for firefighters

In case of fire toxic vapours can be released.

Wear breath protective mask and protective clothes if necessary during fire fighting.

#### 5.4. Further information

The product itself is not inflammable; extinguishing measures should therefore be prepared for an environmental fire.

### 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

Do not let product enter drains.

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

Dilute with plenty of water. Ventilate and clean affected area very carefully after having completely disposed off the material.

### 6.4. Reference to other sections

No data available.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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

At 2-8°C in closed HDPE or PP bottles. Protect from light.

### 7.3. Specific end uses

No data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Components with workplace parameters

By using the product according to the requirements, no air pollution is to be expected.

### 8.2. Expose controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.3. Personal protective equipment

**Respiratory protection:** not required

**Hand protection:** protective gloves of nitril-rubber or natural latex

**Eye protection:** protective glasses. Tightly fitting safety goggles. Face-shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

- |   |  |
|---|--|
| a) Appearance form:                         | liquid product, slightly foaming when shaken |
| b) Colour:                                  | clear  |
| c) Odour:                                   | characteristic                               |
| d) pH:                                      | 3.1 ± 0.5                                    |
| e) Melting point/freezing point:            | no data available.                           |
| f) Initial boiling point and boiling range: | 100°C  |
| g) Flash point:                             | not applicable                               |
| h) Evaporation rate:                        | no data available.                           |
| i) Flammability (solid, gas):               | no data available.                           |

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j) Upper/lower flammability or explosive limits:	no data available.
k) Vapour pressure:	no data available.
l) Vapour density:	no data available.
m) Relative density:	1.003 g/ml
n) Water solubility:	complete soluble/miscible
o) Partition coefficient: n-octanol/water:	complete soluble/miscible in protic solvents
p) Auto-ignition temperature:	no data available.
q) Decomposition temperature:	no data available.
r) Viscosity:	no data available.
s) Explosive properties:	no data available.
t) Oxidizing properties:	no data available.

### 9.2. Other safety information

No data available.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Chemically stable under recommended conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Strong heat, light, especially sunlight will not cause a dangerous reaction, but destroys the quality as substrate solution.

### 10.5. Incompatible materials

Heavy metal salts, peroxidases and catalases will not cause a dangerous reaction, but destroys the quality as substrate solution.

### 10.6. Hazardous decomposition products

High temperature or fire conditions may cause toxic vapor formation, including oxides of carbon, nitrogen, and formation of hydrogen chloride gas.

## 11. TOXICOLOGICAL INFORMATION

Not classified as acutely toxic by oral, dermal, or inhalation routes.

### 11.1. Information on toxicological effects

#### Further toxicological information:

Quantitative data concerning toxicity of the product do not exist.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available.

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### 12.2. Persistence and degradability

No data available.

### 12.3. Bio-accumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

If used properly, no ecological problems are to be expected.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Product

May not be discarded together with the normal waste.

Chemicals or remaining residues have to be treated as special waste and should be discarded according to the appropriate legislation. Information can be collected from the responsible public authorities.

#### Contaminated packaging

Disposal according to the instructions of the public authorities. Contaminated packages have to be treated like the substance itself. Packaging, that is not contaminated, can be recycled or treated like normal house garbage.

## 14. TRANSPORT INFORMATION

### 14.1. UN number

Non-regulated, non-hazardous for transport.

### 14.2. UN proper shipping name

Non-regulated, non-hazardous for transport.

### 14.3. Transport hazard class(es)

Non-regulated, non-hazardous for transport.

### 14.4. Packaging group

Non-regulated, non-hazardous for transport.

### 14.5. Environmental hazards

No data available.

### 14.6. Reportable Quantity (RQ)

No data available.

### 14.7. Emergency Telephone Number (during transport)

CHEMTREC: 1-800-424-9300 (US and Canada)

1-703-527-3887 (International shipments)

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### 14.8. Special precautions for user

No data available.

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No.1272/2008.

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

Symbol: not applicable.

Designation: not applicable.

### 15.2. Chemical Safety assessment

Water endangering class 1 (self-classification): low potential of water endangering.

## 16. OTHER INFORMATION

### Text of H-code(s) mentioned in Section 3

classification	Number	description
H	302	Harmful if swallowed.
	314	Causes severe skin burns and eye damage.
	312	Harmful in contact with skin.
	317	May cause an allergic skin reaction
	318	Causes serious eye damage
	315	Causes skin irritation.
	319	Causes serious eye irritation.
	335	May cause respiratory irritation.
	412	Harmful to aquatic life with long lasting effects.

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biomedica Medizinprodukte GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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### SPECIFIC SECTION

#### Material safety data sheet no.2

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifiers

Kit component name: Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)  
component ID: STOP  
Brand: Biomedica Medizinprodukte GmbH

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

Identified uses: AS SINGLE COMPONENT FOR RESEARCH USE ONLY

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

Company: Biomedica Medizinprodukte GmbH, A-1210 Wien, Divischgasse 4  
Telephone: +43/1/291 07 45, Fax: +43/1/291 07 6389  
E-mail: [info@bmgrp.com](mailto:info@bmgrp.com)

#### 2. HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) No. 1272/2008.

##### Label elements

##### Labeling according Regulation (EC) No 1272/2008 [CLP]

Pictogram none  
Signal word none  
Supplemental hazard statements none

##### 2.2. Other hazards

No data available.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.1 Substances

See section 3.2

##### 3.2. Mixtures

Component	Classification	Percentage
<b>Sulfuric acid</b>		
CAS-No. 7664-93-9 EC-Nr. 231-639-5 INDEX-Nr. 016-020-00-8	Skin Corr. Category 1A; Corrosive to metals (Cat 1); H 315, H319, H335	2.95%
<b>Water</b>		
CAS-No. 7732-18-5 EC-No. 231-791-2	-	97.05%

For the full text of the H-statements mentioned in this section, see section 16.



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### 4. FIRST AID MEASURES

#### 4.1. Description of the first aid measures

##### General advice

Consult a physician, show this safety data sheet to the doctor in attendance.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 min and consult a physician.

##### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

No data available.

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

No data available.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

No data available.

#### 5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4. Further information

No data available.

### 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### 6.2. Environmental precautions

Do not let product enter drains.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

No data available.

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## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 If swallowed: Rinse mouth out, do not induce vomiting.
- P305+P351 IN CASE OF CONTACT WITH THE EYES: Rinse carefully with water for a few minutes. Remove any contact lenses if possible. Continue rinsing.

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

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3. Specific end uses

No data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Components with workplace parameters

No data available.

### 8.2. Expose controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.3. Personal protective equipment

#### Eye/face protection

Tightly fitting safety goggles. Face-shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Body protection

Lab coat protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

a) Appearance form:	liquid
b) Odour:	no data available.
c) Odour Threshold:	no data available.
d) pH:	no data available.
e) Melting point/freezing point:	no data available.
f) Initial boiling point and boiling range:	no data available.
g) Flash point:	no data available.
h) Evaporation rate:	no data available.
i) Flammability (solid, gas):	no data available.
j) Upper/lower flammability or explosive limits:	no data available.
k) Vapour pressure:	no data available.
l) Vapour density:	no data available.
m) Relative density:	no data available.
n) Water solubility:	no data available.
o) Partition coefficient: n-octanol/water:	no data available.
p) Auto-ignition temperature:	no data available.
q) Decomposition temperature:	no data available.
r) Viscosity:	no data available.
s) Explosive properties:	no data available.
t) Oxidizing properties:	no data available.

#### 9.2. Other safety information

No data available.

### 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

Chemically stable under recommended conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

No data available.

#### 10.5. Incompatible materials

No data available.

#### 10.6. Hazardous decomposition products

No data available.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

##### Acute toxicity

No data available.

##### Skin corrosion/irritation

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No data available.

### **Serious eye damage/eye irritation**

No data available.

### **Respiratory or skin sensitization**

No data available.

### **Germ cell mutagenicity**

No data available.

### **Carcinogenicity**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sulfuric acid)

### **Reproductive toxicity**

No data available.

### **Specific target organ toxicity - single exposure**

No data available.

### **Specific target organ toxicity - repeated exposure**

No data available.

### **Aspiration hazard**

No data available.

### **Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
<b>Ingestion</b>	May be harmful if swallowed. Causes burns.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin burns.
<b>Eyes</b>	May be harmful in contact with eyes. Causes eye burns.

### **Additional information**

No data available.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bio-accumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

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### **Contaminated packaging**

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

### **14.1. UN number**

Non-regulated, non-hazardous for transport.

### **14.2. UN proper shipping name**

Non-regulated, non-hazardous for transport.

### **14.3. Transport hazard class(es)**

Non-regulated, non-hazardous for transport.

### **14.4. Packaging group**

Non-regulated, non-hazardous for transport.

### **14.5. Environmental hazards**

No data available.

### **14.6. Reportable Quantity (RQ)**

No data available.

### **14.7. Emergency Telephone Number (during transport)**

CHEMTREC: 1-800-424-9300 (US and Canada)  
1-703-527-3887 (International shipments)

### **14.8. Special precautions for user**

No data available.

## **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No.1272/2008.

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

No data available.

### **15.2. Chemical safety assessment**

No data available.

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### 16. OTHER INFORMATION

#### Text of H-code(s) mentioned in Section 3

Classification	Number	description
H	315	Causes severe skin burns
	319	Causes severe eyes irritation

#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biomedica Medizinprodukte GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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### SPECIFIC SECTION

#### Material safety data sheet no.3

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifiers

Kit component name: Antibody  
Component ID: AB  
Brand: Biomedica Medizinprodukte GmbH

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

Identified uses: AS A SINGLE COMPONENT FOR RESEARCH USE ONLY

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

Company: Biomedica Medizinprodukte GmbH, A-1210 Wien, Divischgasse 4  
Telephone: +43/1/291 07 45, Fax: +43/1/291 07 6389  
E-mail: [info@bmgrp.com](mailto:info@bmgrp.com)


## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Skin sensitisation (Category 1), H317

### 2.2. Label elements

#### Labeling according Regulation (EC) No 1272/2008 [CLP]

Hazard Pictogram	Signal word
	Warning

### 2.3 Other hazards

No data available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

See section 3.2

### 3.2. Mixtures

#### Dangerous components:

Component	Classification	Concentration/percentage
<b>Proprietary formulation; no hazardous components above 1% or carcinogens above 0.1%</b>		
CAS-No. None EINECS -No. none	Not classified	100%
<b>Goat Serum</b>		
-	-	2%
<b>Mouse Serum</b>		
-	-	1%

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<b>Polyoxyethylene (20) sorbitan monolaurate</b> MW: C <sub>58</sub> H <sub>114</sub> O <sub>26</sub>		
CAS-No.9005-64-5 EC-No.500-018-3	-	0.1%
<b>Proclin 950</b>		
CAS-No.2682-20-4 EC-No. 220-239-6	H317	0.1%
<b>Water</b>		
CAS-No.7732-18-5 EC-No. 231-791-2	-	97.8%

For the full text of the H-statements mentioned in this section, see section 16.

### 4. FIRST AID MEASURES

#### 4.1. Description of the first aid measures

##### General advice

Consult a physician, show this safety data sheet to the doctor in attendance.

##### If inhaled

If breathed in, move person to fresh air. If not breathing, give artificial respiration.

##### In case of skin contact

Wash off immediately with soap and plenty of water.

##### In case of eye contact

Rinse thoroughly with plenty of water, also under the eyelids.

##### If swallowed

Never give anything by mouth to an unconscious person. Call a physician.

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

No data available.

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

No data available.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

##### Suitable extinguishing media

No restriction. Use appropriate agent for surrounding fire.

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

Nature of decomposition products not known.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

#### 5.4. Further information

No data available.

### 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment.



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### 6.2. Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Do not let product enter drains.

### 6.3. Reference to other sections

No data available.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Keep in properly labeled containers.; Store at 2-8°C.  
VbF-Class: not applicable.

### 7.3. Specific end uses

No data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Components with workplace parameters

No data available.

### 8.2. Expose controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.3. Personal protective equipment

#### Eye/face protection

Tightly fitting safety goggles.

#### Skin protection

Handle with chemical-resistance gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

- |   |                    |
|---|--------------------|
| a) Appearance form:                         | liquid             |
| b) Colour:                                  | brown              |
| c) Odour:                                   | characteristic     |
| d) pH:                                      | 7.3 – 7.5          |
| e) Melting point/freezing point:            | no data available. |
| f) Initial boiling point and boiling range: | no data available. |

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g) Flash point:	no data available.
h) Evaporation rate:	no data available.
i) Flammability (solid, gas):	no applicable
j) Upper/lower flammability or explosive limits:	no applicable
k) Vapour pressure:	no data available.
l) Vapour density:	no data available.
m) Relative density:	no data available.
n) Water solubility:	complete
o) Partition coefficient: n-octanol/water:	no data available.
p) Auto-ignition temperature:	no applicable
q) Decomposition temperature:	no data available.
r) Viscosity:	no data available.
s) Explosive properties:	not explosive
t) Oxidizing properties:	no data available.

### 9.2. Other safety information

No data available.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous polymerization: will not occur.

### 10.2. Chemical stability

Chemically stable under recommended conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

No data available.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Though complete toxicity information on AB is not available, none of its components are known to be toxic or hazardous at used concentrations. No component of this product contains levels greater than or equal to 0.1% which is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

The product contains Tween20 (0.1%), which can produce adverse health effects in its concentrated forms.

#### Acute toxicity

Polyoxyethylene (20) sorbitan monolaurate:

Acute oral toxicity (LD50): 40.55 mg/kg [rat],

#### Skin corrosion/irritation

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No data available.

### **Serious eye damage/eye irritation**

No data available.

### **Respiratory or skin sensitization**

No data available.

### **Germ cell mutagenicity**

No data available.

### **Carcinogenicity**

No data available.

### **Reproductive toxicity**

No data available.

### **Specific target organ toxicity - single exposure**

No data available.

### **Specific target organ toxicity - repeated exposure**

No data available.

### **Aspiration hazard**

No data available.

### **Additional information**

No data available.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Though complete toxicity information on AB is not available, none of its components are known to be toxic or hazardous at used concentrations. No component of this product contains levels greater than or equal to 0.1% which is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

The product contains Tween20 (0.1%), which can produce adverse health effects in its concentrated forms.

Polyoxyethylene (20) sorbitan monolaurate:

Toxicity (LC50): 350 mg/l for 24h [fish],

### 12.2. Persistence and degradability

No data available.

### 12.3. Bio-accumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### **Product**

Prevent product from entering drains. Dispose of in accordance with local regulations.

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### 14. TRANSPORT INFORMATION

#### 14.1. UN number

Non-regulated, non-hazardous for transport.

#### 14.2. UN proper shipping name

Non-regulated, non-hazardous for transport.

#### 14.3. Transport hazard class(es)

Non-regulated, non-hazardous for transport.

#### 14.4. Packaging group

Non-regulated, non-hazardous for transport.

#### 14.5. Environmental hazards

No data available.

#### 14.6. Reportable Quantity (RQ)

No data available.

#### 14.7. Emergency Telephone Number (during transport)

CHEMTREC: 1-800-424-9300 (US and Canada)  
1-703-527-3887 (International shipments)

#### 14.8. Special precautions for user

No data available.

### 15. REGULATORY INFORMATION

#### US FEDERAL REGULATIONS

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION, AND LIABILITY ACT): not applicable.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): not listed.

#### INTERNATIONAL REGULATIONS

There are no hazardous ingredients in an amount that requires identification and labeling according to European Community Directives.

EUROPEAN UNION'S REACH (REGISTRATION, EVALUATION, AND AUTHORIZATION OF CHEMICALS):

This product meets the definition of a preparation. The aggregate volume of each non-exempt substance in this product does not exceed the 1 metric ton per year threshold. Therefore, registration is not required.

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

No data available.

#### 15.2. Chemical safety assessment

No data available.

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### 16. OTHER INFORMATION

#### Text of H-code(s) and R-phrases(s) mentioned in Section 3

Classification	Number	Description
H	317	May cause an allergic skin reaction.

#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biomedica Medizinprodukte GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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### SPECIFIC SECTION

#### Material safety data sheet no.4

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifiers

Kit component name: Conjugate  
Component ID: CONJ  
Brand: Biomedica Medizinprodukte GmbH

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

Identified uses: AS SINGLE COMPONENT FOR RESEARCH USE ONLY

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

Company: Biomedica Medizinprodukte GmbH, A-1210 Wien, Divischgasse 4  
Telephone: +43/1/291 07 45, Fax: +43/1/291 07 6389  
E-mail: [info@bmgrp.com](mailto:info@bmgrp.com)

#### 2. HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) No. 1272/2008.

##### 2.2. Label elements

###### Labeling according Regulation (EC) No 1272/2008 [CLP]

Pictogram None.  
Signal word None.  
Supplemental hazard statements None

##### 2.3. Other hazards

No data available.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.1 Substances

See section 3.2

##### 3.2. Mixtures

Component	Classification	Percentage
<b>Proprietary formulation; no hazardous components above 1% or carcinogens above 0.1%</b>		
CAS-No. No data available. EINECS -No. No data available.	Not classified	100%
<b>5-bromo-5-nitro-1,3dioxane, MW: C<sub>4</sub>H<sub>6</sub>BrNO<sub>4</sub></b>		
CAS-No. 30007-47-7 EINECS -No. 250-001-7	H302, H315	0.01%
<b>Tris(hydroxymethyl)-aminomethane MW: NH<sub>2</sub>C(CH<sub>2</sub>OH)<sub>3</sub></b>		
CAS-No. 77-86-1 EINECS-No. 201-064-4	H315, H319, H335	0.3%
<b>2-Morpholinoethanesulfonic acid MW: C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S · xH<sub>2</sub>O</b>		

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CAS-No. 145224-94-8 EINECS-No. 224-632-3	-	1.1%
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For the full text of the H-statements mentioned in this section, see section 16.

### 4. FIRST AID MEASURES

#### 4.1. Description of the first aid measures

##### General advice

Consult a physician, show this safety data sheet to the doctor in attendance.

##### If inhaled

Remove victim from the origin of exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Contact a physician.

##### In case of skin contact

Avoid contact with skin. Remove contaminated cloths, wash immediately with plenty of water.

##### In case of eye contact

Avoid contact with eyes. Flush eyes immediately with plenty of water for 15 minutes.

##### If swallowed

After ingestion rinse mouth several times with plenty of water, give extensive water for drinking, contact a physician.

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

No data available.

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

No data available.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

##### Suitable extinguishing media

In case of fire use water spray (fog), foam or dry powder. Use in accordance to the surroundings.

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

The substance may be combustible at high temperature. Combustion products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub> ...), halogenated compounds, hydrogen bromide gas.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 5.4. Further information

Not specified

### 6. ACCIDENTAL RELEASE MEASURES

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

Avoid contact with the preparation. Don't inhale vapours or atomized spray. Be assured of adequate air ventilation

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### 6.2. Environmental precautions

Use appropriate tools to put the spilled substances in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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

Absorb with liquid absorbing material (sand, diatomine, universal binders). Forward to disposal. Clean affected area with plenty of water.

### 6.4. Reference to other sections

No data available.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Store refrigerated 2-8°C.

### 7.3. Specific end uses

No data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Components with workplace parameters

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): No data available.

Exposure Limits:

OSHA PEL: No data available. established

ACGIH TLV: No data available. established

ENGINEERING CONTROLS: Not respirable as a liquid.

### 8.2. Expose controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Safety goggles or glasses with side shields.

##### Skin protection

Wear a lab coat. Change contaminated cloths immediately. Wash hands after handling with soap and water.

##### Respiratory protection

Avoid inhaling vapour and spray fog. Breathing protection not necessary.

##### General hygiene controls

Practice good chemical hygiene when handling.

Avoid contact with eyes, skin and clothing.



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Do not ingest material.

Safety shower and eyewash station available near location of use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

a) Appearance Form:	clear, orange - red
b) Odour:	No data available.
c) Physical state:	liquid
d) pH:	6.5 ± 0.1
e) Melting point/freezing point:	No data available.
f) Initial boiling point and boiling range:	No data available.
g) Flash point:	No data available.
h) Evaporation rate:	No data available.
i) Flammability (solid, gas):	No data available.
j) Upper/lower flammability or explosive limits:	No data available.
k) Vapour pressure:	No data available.
l) Vapour density:	No data available.
m) Relative density:	No data available.
n) Water solubility:	soluble
o) Partition coefficient: n-octanol/water:	No data available.
p) Auto-ignition temperature:	No data available.
q) Decomposition temperature:	No data available.
r) Viscosity:	No data available.
s) Explosive properties:	No data available.
t) Oxidizing properties:	No data available.

#### 9.2. Other safety information

No data available.

### 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

Reactive with oxidizing agents

#### 10.2. Chemical stability

Chemically stable under recommended conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

Excess heat and incompatible materials.  
The substance is sensitive to light.

#### 10.5. Incompatible materials

No data available.

#### 10.6. Hazardous decomposition products

No data available.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Though complete toxicity information on CONJ is not available, none of its components are known to be toxic or hazardous at used concentrations. The product contains 5-Bromo-5-nitro-1,3-dioxane (0.01%) and Tris(hydroxymethyl)-aminomethane (0.3%) which can produce adverse health effects in their concentrated forms.

#### Acute toxicity

5-Bromo-5-nitro-1,3-dioxane:

Acute Oral Toxicity (LD50): 455 mg/kg [rat], 590 mg/kg [mouse]

Tris(hydroxymethyl)-aminomethane:

Acute Oral Toxicity (LD50): 5900 mg/kg [rat]

#### Skin corrosion/irritation

No data available.

#### Serious eye damage/eye irritation

No data available.

#### Respiratory or skin sensitization

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No component of this product contains levels greater than or equal to 0.1% of a known or anticipated carcinogen by NTP, IARC, or OSHA.

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity - single exposure

No data available.

#### Specific target organ toxicity - repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### Potential health effects

Skin: May cause skin irritation

Eyes: May cause eye irritation.

Ingestion: May cause mucous membrane irritation

Inhalation: May cause respiratory tract irritation.

#### Additional information

May affect behaviour/central nervous system (tremor, convulsions, excitement).

Further dangerous properties cannot be ruled out.

The preparation must be handled with the usual care for chemicals.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available.

### 12.2. Persistence and degradability

No data available.

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### 12.3. Bio-accumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

The waste produced from utilizing the preparation and the unused preparation should be disposed of according to the prevailing regulations and guidelines of the agencies holding jurisdiction over the laboratory, and the regulations of each country. The disposal of liquid effluents should be carried out according to the existing local laws and to the existing local regulation governing water pollution.

## 14. TRANSPORT INFORMATION

### 14.1. UN number

Non-regulated, non-hazardous for transport

### 14.2. UN proper shipping name

Non-regulated, non-hazardous for transport

### 14.3. Transport hazard class(es)

Non-regulated, non-hazardous for transport

### 14.4. Packaging group

Non-regulated, non-hazardous for transport

### 14.5. Environmental hazards

No data available.

### 14.6. Reportable Quantity (RQ)

No data available.

### 14.7. Emergency Telephone Number (during transport)

CHEMTREC: 1-800-424-9300 (US and Canada)  
1-703-527-3887 (International shipments)

### 14.8. Special precautions for user

No data available.

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### 15. REGULATORY INFORMATION

#### US FEDERAL REGULATIONS

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION, AND LIABILITY ACT): Not Applicable

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):  
Not Listed

#### INTERNATIONAL REGULATIONS

There are no hazardous ingredients in an amount that requires identification and labeling according to European Community Directives.

#### EUROPEAN UNION'S REACH (REGISTRATION, EVALUATION, AND AUTHORIZATION OF CHEMICALS):

This product meets the definition of a "preparation." The aggregate volume of each non-exempt substance in this product does not exceed the 1 metric ton per year threshold; therefore, registration is not required.

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

No data available.

#### 15.2. Chemical Safety assessment

No data available.

### 16. OTHER INFORMATION

classification	number	description
H	302	Harmful if swallowed.
	315	Causes skin irritation
	319	Causes serious eye irritation.
	335	May cause respiratory irritation.

#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biomedica Medizinprodukte GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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### SPECIFIC SECTION

#### Material safety data sheet no.5

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifiers

Kit component name: Standard  
component ID: STD  
Kit component name: Control  
component ID: CTRL  
Brand: Biomedica Medizinprodukte GmbH

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

Identified uses: AS A SINGLE COMPONENT FOR RESEARCH USE ONLY

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

Company: Biomedica Medizinprodukte GmbH, A-1210 Wien, Divischgasse 4  
Telephone: +43/1/291 07 45, Fax: +43/1/291 07 6389  
E-mail: [info@bmgrp.com](mailto:info@bmgrp.com)

#### 2. HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

##### 2.2. Label elements

###### Labeling according Regulation (EC) No 1272/2008 [CLP]

The product does not need to be labeled in accordance with EC directives or respective national laws.

##### 2.3. Other hazards

None

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.1. Substances

See section 3.2

##### 3.2.

Component	Classification	Percentage
Human serum		
-	-	100%

#### 4. FIRST AID MEASURES

##### 4.1. Description of the first aid measures

###### General advice

Consult a physician, show this safety data sheet to the doctor in attendance.

###### If inhaled

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Move to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### **In case of skin contact**

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

### **In case of eye contact**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### **If swallowed**

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

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

No data available

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

No data available.

## **5. FIRE-FIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Suitable: Use extinguishing media appropriate to surrounding fire conditions.

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

No data available

### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### **5.4. Further information**

No data available

## **6. ACCIDENTAL RELEASE MEASURES**

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

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

### **6.2. Methods and materials for containment and cleaning up**

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Wash spill site with 10% bleach and ventilate area after material pickup is complete.

### **6.3. Reference to other sections**

No data available

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## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

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

Conditions of storage: Keep tightly closed. Store at < -25°C.

### 7.3. Specific end uses

No data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Components with workplace parameters

No data available.

### 8.2. Expose controls

#### ENGINEERING CONTROLS:

Safety shower and eye bath. Mechanical exhaust required.

#### GENERAL HYGIENE MEASURES:

Wash thoroughly after handling.

#### PERSONAL PROTECTIVE EQUIPMENT:

Respiratory protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand protection: Compatible chemical-resistant gloves.

Eye protection: Chemical safety goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

a) Appearance Form:	lyophilized
b) Colour:	clear - turbid, yellowish
c) Odour:	no data available
d) pH:	no data available
e) Melting point/freezing point:	no data available
f) Initial boiling point and boiling range:	no data available
g) Flash point:	no data available
h) Evaporation rate:	no data available
i) Flammability (solid, gas):	no data available
j) Upper/lower flammability or explosive limits:	no data available
k) Vapour pressure:	no data available
l) Vapour density:	no data available
m) Relative density:	no data available
n) Water solubility:	no data available
o) Partition coefficient: n-octanol/water:	no data available
p) Auto-ignition temperature:	no data available
q) Decomposition temperature:	no data available

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r) Viscosity:	no data available
s) Explosive properties:	no data available
t) Oxidizing properties:	no data available

### 9.2. Other safety information

No data available.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous polymerization: will not occur.

### 10.2. Chemical stability

Stable: stable

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Strong oxidizing agents

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: Nature of decomposition products not known.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

#### Skin corrosion/irritation

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

#### Serious eye damage/eye irritation

May cause eye irritation

#### Respiratory or skin sensitization

Material may be irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled.

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

#### Reproductive toxicity

no data available

#### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

no data available

#### Aspiration hazard

no data available



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## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bio-accumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Disposal should be made in accordance with existing disposal practices employed for infectious waste at your institution. Observe all federal, state, and local environmental regulations.

## 14. TRANSPORT INFORMATION

### 14.1. UN number

Non-regulated, non-hazardous for transport

### 14.2. UN proper shipping name

Non-regulated, non-hazardous for transport

### 14.3. Transport hazard class(es)

Non-regulated, non-hazardous for transport

### 14.4. Packaging group

Non-regulated, non-hazardous for transport

### 14.5. Environmental hazards

Not available

### 14.6. Reportable Quantity (RQ)

Not known

### 14.7. Emergency Telephone Number (during transport)

CHEMTREC: 1-800-424-9300 (US and Canada)

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1-703-527-3887 (International shipments)

### 14.8. Special precautions for user

Not known

## 15. REGULATORY INFORMATION

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

No data available.

Caution: Substance not yet fully tested (EU).

### COUNTRY SPECIFIC INFORMATION

Germany

WGK: 3

Self-Classification

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

No data available.

### 15.2. Chemical safety assessment

No data available.

## 16. OTHER INFORMATION

### Text of H-code(s) mentioned in Section 3

No data available.

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biomedica Medizinprodukte GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

## Safety Data Sheet

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### SPECIFIC SECTION

#### Material safety data sheet no.6

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifiers

Kit component name: Wash buffer concentrate 20x  
component ID: WASHBUF  
Brand: Biomedica Medizinprodukte GmbH

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

Identified uses: AS SINGLE COMPONENT FOR RESEARCH USE ONLY

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

Company: Biomedica Medizinprodukte GmbH, A-1210 Wien, Divischgasse 4  
Telephone: +43/1/291 07 45, Fax: +43/1/291 07 6389  
E-mail: [info@bmgrp.com](mailto:info@bmgrp.com)


## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Skin sensitisation (Category 1), H317

### 2.2. Label elements

Labeling according Regulation (EC) No 1272/2008 [CLP]

Hazard Pictogram	Signal word
	Warning

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

See section 3.2

### 3.2. Mixtures

Component	Classification	Percentage
<b>Sodium Chloride</b>		
CAS-No.7647-14-5 EC-No. 231-598-3	-	8%
<b>Polyethylene glycol sorbitan monolaurate</b>		
CAS-No.9005-64-5 EC-No. 500-018-3	-	1%
<b>Proclin950</b>		
CAS-No. 2682-20-4 EC-No. 220-239-6	H317	0.08%

For the full text of the H-statements mentioned in this section, see section 16.

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### 4. FIRST AID MEASURES

#### 4.1. Description of the first aid measures

##### General advice

Consult a physician, show this safety data sheet to the doctor in attendance.

##### If inhaled

Move to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

##### In case of skin contact

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

##### In case of eye contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

##### If swallowed

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

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

Vomiting, diarrhoea, dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract.

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

No data available.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use extinguishing media appropriate to surrounding fire conditions.

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

Hydrogen chloride gas, sodium oxides.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 5.4. Further information

No data available.

### 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

Use appropriate tools to put the spilled substances in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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

Absorb with liquid absorbing material (sand, diatomine, universal binders). Forward to disposal. Clean affected area with plenty of water.

### 6.4. Reference to other sections

No data available.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

Store refrigerated 2-8°C.

### 7.3. Specific end uses

No data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Components with workplace parameters

No data available.

### 8.2. Expose controls

#### ENGINEERING CONTROLS:

Safety shower and eye bath. Mechanical exhaust required.

#### GENERAL HYGIENE MEASURES:

Wash thoroughly after handling.

### 8.3. Personal protective equipment:

Respiratory protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand protection: Compatible chemical-resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

- |                                  |                    |
|----------------------------------|--------------------|
| a) Appearance form:              | liquid             |
| b) Colour:                       | clear - yellowish  |
| c) Odour:                        | No data available. |
| d) pH:                           | 7.4 ± 0.1          |
| e) Melting point/freezing point: | No data available. |

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f) Initial boiling point and boiling range:	No data available.
g) Flash point:	No data available.
h) Evaporation rate:	No data available.
i) Flammability (solid, gas):	No data available.
j) Upper/lower flammability or explosive limits:	No data available.
k) Vapour pressure:	No data available.
l) Vapour density:	No data available.
m) Relative density:	No data available.
n) Water solubility:	No data available.
o) Partition coefficient: n-octanol/water:	No data available.
p) Auto-ignition temperature:	No data available.
q) Decomposition temperature:	No data available.
r) Viscosity:	No data available.
s) Explosive properties:	No data available.
t) Oxidizing properties:	No data available.

### 9.2 Other safety information

No data available.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

No data available.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Nature of decomposition products not known.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

Sodium Chloride:

Acute Oral Toxicity (LD50): 3.000 mg/kg [rat]

Polyethylene glycol sorbitan monolaurate:

Acute Oral Toxicity (LD50): 38,9 mg/kg [rat]

#### Skin corrosion/irritation

Skin Contact: May cause skin irritation.

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Skin Absorption: May be harmful if absorbed through the skin.

### **Serious eye damage/eye irritation**

May cause eye irritation

### **Respiratory or skin sensitization**

Material may be irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled.

### **Germ cell mutagenicity**

No data available.

### **Carcinogenicity**

No data available.

### **Reproductive toxicity**

No data available.

### **Specific target organ toxicity - single exposure**

No data available.

### **Specific target organ toxicity - repeated exposure**

No data available.

### **Aspiration hazard**

No data available.

### **Additional information**

May be harmful if swallowed.

## **12. ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Sodium Chloride:

Acute Toxicity (LC50): 1.294,6 mg/l – 96h [Lepomis macrochirus]

Acute Toxicity (LC50): 1.661 mg/l – 48h [Daphnia magna]

Polyethylene glycol sorbitan monolaurate:

Acute Toxicity (LC50): > 10 mg/l – 48h [Daphnia magna and other aquatic invertebrates]

### **12.2. Persistence and degradability**

No data available.

### **12.3. Bio-accumulative potential**

No data available.

### **12.4. Mobility in soil**

No data available.

### **12.5. Results of PBT and vPvB assessment**

No data available.

### **12.6. Other adverse effects**

No data available.

## **13. DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

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Contact a licensed professional waste disposal service to dispose of this material. Disposal should be made in accordance with existing disposal practices employed for infectious waste at your institution. Observe all federal, state, and local environmental regulations.

### 14. TRANSPORT INFORMATION

#### 14.1. UN number

Non-regulated, non-hazardous for transport

#### 14.2. UN proper shipping name

Non-regulated, non-hazardous for transport

#### 14.3. Transport hazard class(es)

Non-regulated, non-hazardous for transport

#### 14.4. Packaging group

Non-regulated, non-hazardous for transport

#### 14.5. Environmental hazards

No data available.

#### 14.6. Reportable Quantity (RQ)

No data available.

#### 14.7. Emergency Telephone Number (during transport)

CHEMTREC: 1-800-424-9300 (US and Canada)  
1-703-527-3887 (International shipments)

#### 14.8. Special precautions for user

No data available.

### 15. REGULATORY INFORMATION

#### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

Not hazardous.

Caution: Substance not yet fully tested (EU).

#### COUNTRY SPECIFIC INFORMATION

No data available.

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

No data available.

#### 15.2. Chemical safety assessment

No data available.

### 16. OTHER INFORMATION

#### Text of H-code(s) mentioned in Section 3

classification	number	description
H	317	May cause an allergic skin reaction.



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**Further information**

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