

### **GENERAL SECTION**

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

### **1.1. Product identifiers**

Product name: FREE soluble RANKL High Sensitivity ELISA ENZYME IMMUNOASSAY FOR THE QUANTITATIVE DETERMINATION OF FREE SOLUBLE UNCOMPLEXED HUMAN RANKL IN SERUM OR HEPARIN PLASMA Product Number: CAT. NO. BI-20462, 12 X 8 TESTS Brand: Biomedica Medizinprodukte GmbH

### **1.2. Relevant identified uses of the substance or mixture and uses advised against** Identified uses: IN-VITRO DIAGNOSTICS IN EU (CE marked)

#### **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 85
E-mail:	info@bmgrp.com
Prepared by	Biomedica Slovakia s.r.o., 841 01 Bratislava, Drobneho 27

### 1.4. Emergency telephone number

Phone: +43-1-4064343

#### **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:

The following are nazardous 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 sRANKL ligand antibody)	AB	8.43%	3	14
Conjugate (Streptavidin Poly-HRP)	CONJ	1.41%	4	21
Assay buffer	ASYBUF	1.43 %	5	27
Standards, Control	STD, CTRL	100%	6	34
Wash buffer concentrate 20x	WASHBUF	18.1%	7	40



### 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:	ТМВ
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

Biomedica Medizinprodukte GmbH,
A-1210 Wien, Divischgasse 4
+43/1/291 07 45
+43/1/291 07 85
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	Percentage
	R-phrases	
3,3´,5,5´-Tetramethylbenzidi	ne	
EINECS: 259-364-6		<0.06%
CAS-NR: 54827-17-7	H315, H319, H335	<0.00 %
Triethylenetetramine		
EINECS: 203-950-6 CAS-NR: 112-24-3	H312, H314, H317, H412	<0.06%



	Hydrogen peroxide		
	EINECS: 231-765-0	Ox. Liq. 1; . Skin	<0.020/
	CAS-NR: 7722-84-1	Corr. 1A; H302, H318	<0.03%
For the full tout of the LL statements mentioned in this section, and section 40			

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.

### 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.

according to Regulation (EC) No.1272/2008 released 2019/01/16



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
<ul><li>e) Melting point/freezing point:</li></ul>	no data available.
<li>f) Initial boiling point and boiling range:</li>	100°C
g) Flash point:	not applicable
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.
I) Vapour density:	no data available.
m) Relative density:	1.003 g/ml
n) Water solubility:	complete soluble/miscible

according to Regulation (EC) No.1272/2008 released 2019/01/16



- o) Partition coefficient: n-octanol/water:
- p) Auto-ignition temperature:
- q) Decomposition temperature:
- r) Viscosity:
- s) Explosive properties:
- t) Oxidizing properties:

### 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.

- **12.2.** Persistence and degradability No data available.
- **12.3. Bio-accumulative potential** No data available.
- 12.4. Mobility in soil

complete soluble/miscible in protic solvents no data available. no data available.



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)
- **14.8.** Special precautions for user No data available.

#### 15. REGULATORY INFORMATION This safety datasheet complies wi

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
	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
Н	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.



SPECIFIC SECTION

Material safety data sheet no.2

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

### 1.1. Product identifiers

Sulfuric acid (H <sub>2</sub> SO <sub>4</sub> )
STOP
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 85
	E-mail:	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
Sulfuric acid		
CAS-No. 7664-93-9	Skin Corr. Category 1A;	
EC-Nr. 231-639-5	Corrosive to metals (Cat 1);	2.95%
INDEX-Nr. 016-020-00-8	H 315, H319, H335	
Water		
CAS-No. 7732-18-5		97.05%
EC-No. 231-791-2	-	97.03%

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

according to Regulation (EC) No.1272/2008 released 2019/01/16



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.

### 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.

according to Regulation (EC) No.1272/2008 released 2019/01/16



### 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).

### 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.
<ul><li>e) Melting point/freezing point:</li></ul>	no data available.
<li>f) Initial boiling point and boiling range:</li>	no data available.
g) Flash point:	no data available.
h) Evapour ation rate:	no data available.
i) Flammability (solid, gas):	no data available.
j) Upper/lower flammability or explosive limits:	no data available.

according to Regulation (EC) No.1272/2008 released 2019/01/16



no data available. no data available.

no data available.

no data available.

- k) Vapour pressure:
- I) Vapour density:
- m) Relative density:
- n) Water solubility:
- o) Partition coefficient: n-octanol/water:
- p) Auto-ignition temperature:
- q) Decomposition temperature:
- r) Viscosity:
- s) Explosive properties:
- t) Oxidizing properties:

### 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 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

according to Regulation (EC) No.1272/2008 released 2019/01/16



Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed. Causes burns.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	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.
 Contaminated packaging
 Dispass of as uppendicate

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.

### **16. OTHER INFORMATION**

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

Classification	Number	description
н	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.



### 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 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 85
E-mail:	info@bmgrp.com

### 2. HAZARDS IDENTIFICATION

### **2.1. Classification of the substance or mixture** Skin sensitisation (Category 1), H317

### 1.1. 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
Proprietary formulation; no hazardous components above 1% or carcinogens above		
0.1%	-	-
CAS-No. None	Not classified	100%
EINECS -No. none		100%
Goat Serum		
-	-	1%
Mouse Serum		
-		1%
		170
Triton X-100,	H302, H319, H411	1%
CAS-No. 9002-93-1, EC N.A.	1502, 11519, 11411	1 /0

according to Regulation (EC) No.1272/2008 released 2019/01/16



Boric acid, CAS-No.		0.31%
10043-35-3	H306FD	
EC-No. 233-139-2		
Sodium tetraborate		0.02%
CAS-No. 1330-43-4	H319, H360	
EC-No. 215-540-4		
Human serum		
-	-	5%
Proclin 950		
CAS-No. 2682-20-4	H317	0.1%
EC-No. 220-239-6		

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 into 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

Hazardous decomposition products formed under fire conditions. 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.

according to Regulation (EC) No.1272/2008 released 2019/01/16



### 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

P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P391 Collect spillage.
P501 Dispose of contents/ container to an approved waste disposal plant.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

### 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.

according to Regulation (EC) No.1272/2008 released 2019/01/16



### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

operties
liquid
green
none
7.3- 7.5
no data available.
no data available
no data available.
no data available.
no applicable.
no applicable.
no data available.
no data available.
no data available.
complete.
no data available.
no applicable.
no data available.
no data available.
not explosive.
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. Acute toxicity

Triton X-100:

LD50 Oral - rat - 1.800 mg/kg LD50 Dermal - rabbit - 8.000 mg/kg Boric Acid:

### Safety Data Sheet according to Regulation (EC) No.1272/2008 released 2019/01/16



Acute Oral Toxicity (LD50): 2.660 mg/kg [rat] Sodium tetraborate: LD50 Oral - rat - 2.400 - 2.600 mg/kg LD50 Dermal - rabbit - > 2.000 mg/kg,

### 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 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 not 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.

- **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.

### **14. TRANSPORT INFORMATION**

### 14.1. UN number

Non-regulated, non-hazardous for transport.

### Safety Data Sheet according to Regulation (EC) No.1272/2008 released 2019/01/16



- **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.

### **16. OTHER INFORMATION**

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

classification	Number	description
	302	Harmful if swallowed.
	317	May cause an allergic skin reaction.
н	319	Causes serious eye irritation.
	360	May damage fertility or the unborn child.
	411	Toxic to aquatic life with long lasting effects.
	306FD	May damage fertility. May damage the unborn child.



### **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.



### 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

**1.1. Relevant identified uses of the substance or mixture and uses advised against** Identified uses: AS SINGLE COMPONENT FOR RESEARCH USE ONLY

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

Biomedica Medizinprodukte GmbH,
A-1210 Wien, Divischgasse 4
+43/1/291 07 45
+43/1/291 07 85
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	
Proprietary formulation; no hazardous components above 1% or carcinogens above			
0.1%	·	-	
CAS-No. No data available.	Not classified	100%	
EINECS -No. No data			
available.			
5-bromo-5-nitro-1,3dioxane, MW: C <sub>4</sub> H <sub>6</sub> BrNO <sub>4</sub>			
CAS-No. 30007-47-7	H302, H315	0.01%	
EINECS -No. 250-001-7			
Tris(hydroxymethyl)-aminomethane MW: NH <sub>2</sub> C(CH <sub>2</sub> OH) <sub>3</sub>			
CAS-No. 77-86-1	H315, H319, H335	0.3%	
EINECS-No. 201-064-4			
2-Morpholinoethanesulfonic acid MW: C <sub>6</sub> H <sub>13</sub> NO <sub>4</sub> S · xH <sub>2</sub> O			

according to Regulation (EC) No.1272/2008 released 2019/01/16



CAS-No. 145224-94-8	-			1.1%
EINECS-No. 224-632-3				
		 	 10	

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, CO2), nitrogen oxides (NO, NO2 ...), 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

### 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

according to Regulation (EC) No.1272/2008 released 2019/01/16



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. 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
<ul><li>e) Melting point/freezing point:</li></ul>	No data available.
<li>f) Initial boiling point and boiling range:</li>	No data available.
g) Flash point:	No data available.
h) Evaporation rate:	No data available.

according to Regulation (EC) No.1272/2008 released 2019/01/16



- i) Flammability (solid, gas):
- j) Upper/lower flammability or explosive limits:
- k) Vapour pressure:
- I) Vapour density:
- m) Relative density:
- n) Water solubility:
- o) Partition coefficient: n-octanol/water:
- p) Auto-ignition temperature:
- q) Decomposition temperature:
- r) Viscosity:
- s) Explosive properties:
- t) Oxidizing properties:

### 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.

### **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. Soluble No data available. No data available.

according to Regulation (EC) No.1272/2008 released 2019/01/16



### 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.
- **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

### Safety Data Sheet according to Regulation (EC) No.1272/2008

released 2019/01/16



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.

### **16. OTHER INFORMATION**

classification	number	description
Н	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.



### 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:	Assay buffer
Component ID:	ASYBUF
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 85	
E-mail:	info@bmgrp.com	

### 2. HAZARDS IDENTIFICATION

#### **2.1. Classification of the substance or mixture** Skin sensitisation (Category 1), H317

### 1.2. 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	Concentration/percentage			
Proprietary formulation; no hazardous components above 1% or					
carcinogens above 0.1%					
CAS-No. None EINECS -No. none	Not classified	100%			
Boric acid, MW: H <sub>3</sub> BO <sub>3</sub>					
CAS-No. 10043-35-3 EC-No. 233-139-2	H306FD	0.31%			

according to Regulation (EC) No.1272/2008 released 2019/01/16



Sodium tetraborate, MW: B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub>				
CAS-No. 1330-43-4		0.02%		
EC-No. 215-540-4	H319, H360			
Probumin from bovine se	erum			
CAS-No.9048-46-8		1%		
EC-No. 232-936-2	-	1 70		
Proclin 950				
CAS-No. 2682-20-4	H317	0.1%		
EC-No. 220-239-6		0.1%		
Water				
CAS-No.7732-18-5		98.57%		
EC-No. 231-791-2	-	90.07 /0		

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.



### 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

P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P391 Collect spillage.
P501 Dispose of contents/ container to an approved waste disposal plant.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

### 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

according to Regulation (EC) No.1272/2008 released 2019/01/16



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

- a) Appearance form:
- b) Colour:
- c) Odour:
- d) pH:
- e) Melting point/freezing point:
- f) Initial boiling point and boiling range:
- g) Flash point:
- h) Evapour ation rate:
- i) Flammability (solid, gas):
- j) Upper/lower flammability or explosive limits:
- k) Vapour pressure:
- I) Vapour density:
- m) Relative density:
- n) Water solubility:
- o) Partition coefficient: n-octanol/water:
- p) Auto-ignition temperature:
- q) Decomposition temperature:
- r) Viscosity:
- s) Explosive properties:
- t) Oxidizing properties:

### 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 ASYBUF 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.

liquid clear - yellowish characteristic 6.9 - 7.1no data available. no data available. no data available. no data available. no applicable no applicable no data available. no data available. no data available. complete no data available. no applicable no data available. no data available. not explosive no data available.

according to Regulation (EC) No.1272/2008 released 2019/01/16



### Acute toxicity

Boric Acid: Acute Oral Toxicity (LD50): 2.660 mg/kg [rat] Sodium tetraborate: LD50 Oral - rat - 2.400 - 2.600 mg/kg LD50 Dermal - rabbit - > 2.000 mg/kg,

### 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 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 ASYBUF 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.

## **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

according to Regulation (EC) No.1272/2008 released 2019/01/16



### Product

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

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	
Н	317	May cause an allergic skin reaction.	
	319	Causes serious eye irritation.	
	360	May damage fertility or the unborn child.	
	306FD	May damage fertility. May damage the unborn child.	

### 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.



### 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:	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 85
E-mail:	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

No data available.

### 3. COMOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

See section 3.2

### 3.2. Mixtures

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** 

according to Regulation (EC) No.1272/2008 released 2019/01/16



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** Nature of decomposition products not known.

### 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 personally protective environment.

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

Sweep up, place in a bag and store 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.

### 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

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



P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

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

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

### 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.Eye protection:Chemical safety goggles.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

a) Appearance form:	lyophilised
b) Colour:	clear - yellowish
c) Odour:	characteristic
d) pH:	no data available.
<ul><li>e) Melting point/freezing point:</li></ul>	no data available.
f) Initial boiling point and boiling range:	no data available.
g) Flash point:	no data available.
h) Evapour ation 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.
I) Vapour density:	no data available.
m) Relative density:	no data available.
n) Water solubility:	no data available.
<ul><li>o) Partition coefficient: n-octanol/water:</li></ul>	no data available.
p) Auto-ignition temperature:	no data available.
<ul> <li>q) Decomposition temperature:</li> </ul>	no data available.
r) Viscosity:	no data available.
s) Explosive properties:	no data available.

according to Regulation (EC) No.1272/2008 released 2019/01/16



no data available.

t) Oxidizing properties:

### 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 Strong oxidizing agents
- **10.5.** Incompatible materials No data available.
- **10.6. Hazardous decomposition products** Nature of decomposition products not known.

### **11. TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects Acute toxicity No data available. Skin corrosion/irritation Skin contact: May cause skin irritation. May be harmful if absorbed through the skin. Skin absorption: 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** 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 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 INDICATION OF DANGER: B Biohazard. Caution: Substance not yet fully tested (EU).



- **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**

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.



### **SPECIFIC SECTION**

### Material safety data sheet no.7

# 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 A SINGLE COMPONENT FOR RESEARCH USE ONLY

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

Biomedica Medizinprodukte GmbH	
A-1210 Wien, Divischgasse 4	
+43/1/291 07 45	
+43/1/291 07 85	
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.

### 3. COMOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

See section 3.2

### 3.2. Mixtures

Component	Clas	sification	Percentage	
Sodium Chloride MW: NaCl				
CAS-No.7647-14-5			16%	
EC-No. 231-598-3	-		10%	
4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol MW:				
(C <sub>2</sub> H <sub>4</sub> O)nC <sub>14</sub> H <sub>22</sub> O				
CAS-No.9002-93-1	L12	02, H319, H411	2%	
EC-No.	ПЭ	02, 1319, 1411	270	
Proclin 950				
CAS-No. 2682-20-4		11047	0.00%	
EC-No. 220-239-6		H317	0.08%	
Tris(hydroxymethyl)-aminomethane MW: NH <sub>2</sub> C(CH <sub>2</sub> OH) <sub>3</sub>				
CAS-No. 77-86-1		H319, H335	0.02%	
EINECS-No. 201-064-4				

according to Regulation (EC) No.1272/2008 released 2019/01/16



### 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

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.

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

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

according to Regulation (EC) No.1272/2008 released 2019/01/16



### 6.4. Reference to other sections

No data available.

### 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
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.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

**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:	characteristic
d) pH:	7.4 ± 0.1
e) Melting point/freezing point:	no data available.
f) Initial boiling point and boiling range:	no data available.

according to Regulation (EC) No.1272/2008 released 2019/01/16



- g) Flash point:
- h) Evapour ation rate:
- i) Flammability (solid, gas):
- j) Upper/lower flammability or explosive limits:
- k) Vapour pressure:
- I) Vapour density:
- m) Relative density:
- n) Water solubility:
- o) Partition coefficient: n-octanol/water:
- p) Auto-ignition temperature:
- q) Decomposition temperature:
- r) Viscosity:
- s) Explosive properties:
- t) Oxidizing properties:

### 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): 3000 mg/kg [rat]

4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol: Acute oral toxicity (LD50): 707 mg/kg [rat, female] Acute oral toxicity (LD50): 500 mg/kg [rat, male]

### Skin corrosion/irritation

Skin contact:May cause skin irritation.Skin absorption:May be harmful if absorbed through the skin.Serious eye damage/eye irritationMay cause eye irritationRespiratory or skin sensitizationMaterial may be irritating to mucous membranes and upper respiratory tract. May be

no data available. no data available.



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. 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): 1294.6 mg/l – 96h [Lepomis macrochirus] Acute toxicity (LC50): 1661 mg/l – 48h [Daphnia magna] 4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol: Acute toxicity (LC50): 8.9 mg/l – 96h [Pimephales promelas] Acute toxicity (LC50): 26 mg/l – 48h [Daphnia magna]

- **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

### Safety Data Sheet according to Regulation (EC) No.1272/2008 released 2019/01/16



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 No data available. 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	
	302	Harmful if swallowed.	
	317	May cause an allergic skin reaction.	
Н	319	Causes serious eye irritation.	
	335	May cause respiratory irritation.	
	411	Toxic 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.