

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

#### 1.1. Product identifiers

Product name: ENZYME IMMUNOASSAY FOR THE QUANTITATIVE DETERMINATION OF SOLUBLE SEMAPHORIN 4D IN EDTA PLASMA, CITRATE PLASMA, OR HEPARIN PLASMA Product Number: CAT. NO. BI-20405, 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 85
E-mail:	info@bmgrp.com
Prepared by:	Biomedica Slovakia, 841 01 Bratislava, Drobného 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:

Hazardous substance       Substance part of the following ELISA kit component, [Identification       Quantity/ state       Material				Page of this MSDS
	name of vial]		[]	
Substrate (TMB solution)	TMB	0.1%	1	2
Stop Solution	STOP	2.95%	2	8
Conjugate (Semaphorin 4D POX-labelled antibody)	CONJ	0.915%	3	14
Assay buffer	ASYBUF	1.1 %	4	21
Standards, Control	STD, CTRL	100%	5	27
Wash buffer concentrate 20x	WASHBUF	9.08%	6	33

Safety Data Sheet according to Regulation (EC) No.1272/2008 released 202012/31



#### 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:

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Component	Classification	Percentage		
	R-phrases			
3,3´,5,5´-Tetramethylbenzidi	3,3´,5,5´-Tetramethylbenzidine			
EINECS: 259-364-6		<0.06%		
CAS-NR: 54827-17-7	H315, H319, H335	<b>\U.UU</b> /0		
Triethylenetetramine				
EINECS: 203-950-6 CAS-NR: 112-24-3	H312, H314, H317, H412	<0.06%		
Hydrogen peroxide	·			

according to Regulation (EC) No.1272/2008 released 202012/31



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

#### 6.4. Reference to other sections

according to Regulation (EC) No.1272/2008 released 202012/31 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 requiredHand protection:protective gloves of nitril-rubber or natural latexEye protection:protective glasses. Tightly fitting safety goggles. Face-shield<br/>(8-inch minimum). Use equipment for eye protection tested<br/>and approved under appropriate government standards such<br/>as NIOSH (US) or EN 166(EU).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 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) Evaporation rate:
- i) Flammability (solid, gas):
- j) Upper/lower flammability or explosive limits:
- k) Vapour pressure:
- I) Vapour density:
- m) Relative density:
- n) Water solubility:

liquid product, slightly foaming when shaken clear characteristic  $3.1 \pm 0.5$ no data available. 100°C not applicable no data available. 1.003 g/ml complete soluble/miscible

according to Regulation (EC) No.1272/2008 released 202012/31

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.



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

according to Regulation (EC) No.1272/2008 released 202012/31



# **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)
- **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.

according to Regulation (EC) No.1272/2008 released 202012/31



**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.

according to Regulation (EC) No.1272/2008 released 202012/31 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 ( $H_2SO_4$ )
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 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		07.05%
EC-No. 231-791-2	-	97.05%

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 202012/31



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 202012/31 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.
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) Evapour ation rate:	no data available.
i) Flammability (solid, gas):	no data available.

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- j) Upper/lower flammability or explosive limits: 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. no data available.

no

according to Regulation (EC) No.1272/2008 released 202012/31 No data available.



Potential health effects

InhalationMay be harmful if inhaled. Material is extremely destructive to<br/>the tissue of the mucous membranes and upper respiratory<br/>tract.IngestionMay be harmful if swallowed. Causes burns.SkinMay be harmful if absorbed through skin. Causes skin burns.EyesMay 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

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 Backaging group
- 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.

according to Regulation (EC) No.1272/2008 released 202012/31



#### **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	
11	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

according to Regulation (EC) No.1272/2008 released 202012/31



#### 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 A SINGLE COMPONENT FOR RESEARCH USE ONLY

#### 1.2. 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

#### 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	
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.			
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	0.01%	
EINECS-No. 201-064-4			
Tris(hydroxymethyl)-aminomethane hydrochlorid MW: NH <sub>2</sub> C(CH <sub>2</sub> OH) <sub>3</sub> . HCl			
CAS-No. 1185-53-1	H315, H319, H335	0.1%	
EINECS-No. 214-684-5			
Albumine, from bovine serum			

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CAS-No.9048-46-8	-	0.5%
EC-No. 220-239-6		
Proclin 950		
CAS-No.2682-20-4	H317	0.1%
EC-No. 220-239-6		
Phenol		
CAS-No. 108-95-2	H301 + H311 + H331, H314, 341, 373,411	0.2%
Gentamycin sulfate		
CAS-No 1405-41-0	H317, H335	0.005%
EC-No. 215-778-9		

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 clothes, 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

No data available.

according to Regulation (EC) No.1272/2008 released 202012/31



- 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. Assure 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

No data available.

#### 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): None Exposure Limits: OSHA PEL: none established. ACGIH TLV: none 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.

#### 8.3. Personal protective equipment

#### Eye/face protection

Safety goggles or glasses with side shields. Skin protection

according to Regulation (EC) No.1272/2008 released 202012/31



Wear a lab coat. Change contaminated clothes

immediately. After handling wash hands 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

<ul> <li>a) Appearance form:</li> <li>b) Odour:</li> <li>c) Physical state:</li> <li>d) pH:</li> <li>e) Melting point/freezing point:</li> <li>f) Initial boiling point and boiling range:</li> <li>g) Flash point:</li> <li>h) Evaporation rate:</li> <li>i) Flammability (solid, gas):</li> <li>j) Upper/lower flammability or explosive limits:</li> <li>k) Vapour pressure:</li> <li>l) Vapour density:</li> </ul>	clear, red liquid characteristic liquid 7.1 ± 0.1 no data available. no data available.
<b>0</b> /	
, 1	
k) Vapour pressure:	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.
<ul> <li>q) Decomposition temperature:</li> </ul>	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.

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according to Regulation (EC) No.1272/2008 released 202012/31



**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. 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 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 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. **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 May cause skin irritation. Skin: Eyes: May cause eye irritation. May cause mucous membrane irritation. Ingestion: May cause respiratory tract irritation. Inhalation: Additional information May affect behavior/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.

according to Regulation (EC) No.1272/2008 released 202012/31



- **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.

#### **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.

according to Regulation (EC) No.1272/2008 released 202012/31



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
	315	Causes skin irritation.
	301 + 311	Toxic if swallowed, in contact with skin or if inhaled
	+ 331	
	314	Causes severe skin burns and eye damage
	317	May cause an allergic skin reaction.
Н	319	Causes serious eye irritation
	335	May cause respiratory irritation.
	341	Suspected of causing genetic defects.
	373	May cause damage to organs through prolonged or
	373	repeated exposure.
	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.

#### **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:	Assay buffer
Component ID:	ASYBUF
Brand:	Biomedica Medizinprodukte GmbH

according to Regulation (EC) No.1272/2008 released 202012/31



1.2. Relevant identified uses of the substance or mixture and uses advised against FOR RESEARCH USE ONLY Identified uses: NOT FOR USE IN DIAGNOSTIC PROCEDURES

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

Company:

Fax:

E-mail:

Telephone:

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]

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	Concentration/percentage		
Proprietary formulation; no hazardous components above 1% or				
carcinogens above 0.1%				
CAS-No. None EINECS -No. none	Not classified	100%		
Human serum albumin – 20 % solution				
CAS-No. 70024-90-7		1 %		
EC-No. 274-272-6	-			
Polyoxyethylene (20) sor	bitan monolaurat	e MW: C <sub>58</sub> H <sub>114</sub> O <sub>26</sub>		
CAS-No.9005-64-5	-	0.05%		
EC-No.500-018-3				
Water				
CAS-No.7732-18-5		98.95%		
EC-No. 231-791-2	-	90.90%		

#### 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.

according to Regulation (EC) No.1272/2008 released 202012/31



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

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.

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

according to Regulation (EC) No.1272/2008 released 202012/31



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:	clear - yellowish
c) Odour:	characteristic
d) pH:	5.5-5.7
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) Evapour ation 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.
I) Vapour density:	no data available.
m) Relative density:	no data available.
n) Water solubility:	complete
<ul> <li>o) Partition coefficient: n-octanol/water:</li> </ul>	no data available.
p) Auto-ignition temperature:	no applicable
<ul> <li>q) Decomposition temperature:</li> </ul>	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.

according to Regulation (EC) No.1272/2008 released 202012/31



#### **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.

The product contains Tween20 (0.05%), 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 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

according to Regulation (EC) No.1272/2008 released 202012/31



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 (0.05%), 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.
- **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

according to Regulation (EC) No.1272/2008 released 202012/31 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** 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.



# 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

None

#### 3. COMOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

- See section 3.2
- 3.2.

Component	Classification	Percentage
Human plasma		
-	-	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** 

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

according to Regulation (EC) No.1272/2008 released 202012/31



#### 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

#### 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.

according to Regulation (EC) No.1272/2008 released 202012/31



#### 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
<li>f) Initial boiling point and boiling range:</li>	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
I) Vapour density:	no data available
m) Relative density:	no data available
n) Water solubility:	no data available
<ul> <li>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
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

according to Regulation (EC) No.1272/2008 released 202012/31 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 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.

according to Regulation (EC) No.1272/2008 released 202012/31



- **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) 1-703-527-3887 (International shipments)
- 14.8. Special precautions for user Not known

#### 15. REGULATORY INFORMATION CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES INDICATION OF DANGER: B Biohazard. 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.

according to Regulation (EC) No.1272/2008 released 202012/31



**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 according to Regulation (EC) No.1272/2008 released 202012/31 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 85
E-mail:	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
Sodium Chloride			
CAS-No.7647-14-5		-	8%
EC-No. 231-598-3			
Polyoxyethylene (20) sorbitan monolaurate MW: C <sub>58</sub> H <sub>114</sub> O <sub>26</sub>			
CAS-No.9005-64-5		-	1%
EC-No. 500-018-3			
Proclin950			
CAS-No. 2682-20-4		H317	0.08%
EC-No. 220-239-6			

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

#### 4. FIRST AID MEASURES

according to Regulation (EC) No.1272/2008 released 202012/31



#### 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.

according to Regulation (EC) No.1272/2008 released 202012/31 6.3. Methods and materials for containment and



# 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: data available.
- g) Flash point:
- h) Evaporation 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): 3.000 mg/kg [rat]

> Polyoxyethylene (20) sorbitan monolaurate : Acute Oral Toxicity (LD50): 38,9 mg/kg [rat]

Skin corrosion/irritation Skin Contact: May cause skin irritation.



No

No data available. No data available.

according to Regulation (EC) No.1272/2008 released 202012/31



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]

Polyoxyethylene (20) 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 Product

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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
Н	317	May cause an allergic skin reaction.

#### **Further information**

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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.