

# SAFETY DATA SHEET

## 1. Identification of product and company

Product Name: **OPG Mouse/Rat 96t**  
 Catalog: **BI-20602**  
 Normal use: See labeling.  
 Company: BIOMEDICA MEDIZINPRODUKTE GmbH & Co KG., Divischgasse 4,  
 A-1210 Wien, Austria  
 Tel. +43/1/291 07 41, Fax +43/1/291 07 85

## 2. General preferences

All reagents sold by BIOMEDICA must be handled only by qualified laboratory personal. This information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. BIOMEDICA shall not be held liable for any damage resulting from handling and from contact with the above product.

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.

## 3. Specific form(s)

The following are hazardous substances present in this product:

Hazardous substance: <b>TMB substrate</b>	Material Safety Data Sheet: <b>5</b>
Reference of vials containing this substance	Quantity of hazardous substance:
Substrate (vial ID: TMB)	<0.5%
Hazardous substance: <b>Proclin 300</b>	Material Safety Data Sheet: <b>9</b>
Reference of vials containing this substance	Quantity of hazardous substance:
Standards (vial ID: AS)	0.1%
Control (vial ID:AC)	0.1%
Detection Antibody (vial ID:AA)	0.1%
Stockstandard for Cell Culture (vial ID: AZ)	0.1%
Conjugate (vial ID:AK)	0.1%
Washing Buffer (vial ID: WP)	0.1%
Hazardous substance: <b>Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)</b>	Material Safety Data Sheet: <b>3</b>
Reference of vials containing this substance	Quantity of hazardous substance:
Stop solution (vial ID: POT)	< 10%

Hazardous substance: **BSA**  
 Reference of vials containing this substance  
 Conjugate (vial ID:AK)

Material Safety Data Sheet: **8**  
 Quantity of hazardous substance:  
 0.5 %

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Any use of the product which does not conform with the instructions for use, as supplied with the product, is the responsibility of the user. Biomedica shall not be held liable for any damage resulting from handling or from contact with the above product.

Enclosed are the specific safety data sheets (as applicable).

Date: 2006-01-03

SHEET 5

Hazardous Substance  
 Safety Data Sheet

**TMB substrate**

**SECTION 1. IDENTIFICATION OF SUBSTANCE AND COMPANY.**

TMB substrate.

This product constitutes a ready-to-use substrate for several enzyme immunoassays.

Manufacturer: BIOMEDICA MEDIZINPRODUKTE GmbH & Co KG, A-1210 Vienna,  
 Divischgasse 4, Austria,

Technical service: Tel: +43/1/291 07 41, Fax +43/1/291 14 29

**SECTION 2. COMPOSITION INFORMATION.**

Substance	Concentration in the preparation	CAS No./ EEC No.
3,3',5,5'-Tetramethylbenzidine	54827-17-7	0,036 %
EDTA – di-sodium salt	6381-92-6	0,093 %

**SECTION 3. HAZARD IDENTIFICATION.**

According to EC directive 67/548/EWG this preparation is as not hazardous classified, nevertheless this product should be handled with care.

**SECTION 4. FIRST AID PROCEDURES.**

Skin contact: Remove contaminated clothing and wash with soap and water.

Eye contact: Immediately flush with water or physiological salt water, holding eye lips open, remember to remove contact lenses, if any. If needed: get medical attention.

Ingestion: Rinse mouth and drink plenty of water. Keep under surveillance. If needed get medical attention.

Information: show this Safety Data Sheet to doctor or emergency ward.

**SECTION 5. FIRE FIGHTING MEASURES.**

Preparation not flammable.

**SECTION 6. ACCIDENTAL RELEASE MEASURES.**

Personal precautions: Use personal protection. See protective equipment listed in section 8. Ventilate area of leak or spill.

Methods for cleaning up/collecting: absorb spillage with an inert material and place spillage in a suitable container for disposal. Further handling of spillage: see section 13.

**SECTION 7. HANDLING AND STORAGE.**

Safe handling: see section 8.

Safe storage: in a well closed container. Storage is recommended at 2 to 8°C.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.**

Avoid contact with skin and eyes.

Personal protective equipment: respiratory protection: none with normal use.

Skin protection: use gloves of rubber or plastic.

Eye protection: wear tight fitting safety goggles when risk of splashing.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.**

Appearance	Liquid, foamy when shaken
Colour	Light yellow to blue
Odor	characteristic
PH	3,6 to 3,8
Solubility in water	miscible

**SECTION 10. STABILITY AND REACTIVITY.**

Avoid elevated temperatures. Protect from direct UV light.

Incompatibility: heavy metal salts, peroxidases and other strong oxidizing agents.

**SECTION 11. TOXICOLOGICAL INFORMATION.**

Components:

3,3',5,5'-Tetramethylbenzidine no information available

EDTA-di-sodium salt LD50 (oral) 2000 mg/kg (rat)

Additional toxicologic information: quantitative data for this preparation are not available.

**SECTION 12. ECOLOGICAL INFORMATION.**

Do not empty large amounts into water or drains.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal should be according to local, state or national legislation. Dispose through authority facilities or pass to chemical disposal company. Don't dispose into domestic waste.

### **SECTION 14. TRANSPORT INFORMATION.**

No special precaution is required.

### **SECTION 15. REGULATORY INFORMATION.**

The preparation is not to be classified according to EEC directive 88/379/EEC.

No known healthy hazards in this preparation.

Symbol: not necessary

Labelling: not necessary

### **SECTION 16. OTHER INFORMATION.**

This product is intended to be used only by trained laboratory personnel.

SHEET 9

Hazardous Substance  
Safety Data Sheet

## **Proclin 300**

### **SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY.**

#### **Proclin 300 50 ml**

This Isothiazolone-based preservative is designed for protecting your in vitro diagnostic products such as controls, calibrators, enzymes, antibodies, rinse solutions and buffers. It is provided in a 3 % total active microbicide solution. Levels as low as 6ppm are effective in eradicating and inhibiting the growth of bacteria, yeast and fungi. This data sheet is provided together with the material safety data sheet of each immunoassay.

Manufacturer: Sigma-Aldrich Chemie GmbH, Riedstr. 2 D-89555 Steinheim, Germany

Technical service: Tel: +49/07329/970

Supplier: BIOMEDICA Medizinprodukte GmbH & Co KG, A-1210 Vienna, Divischgasse 4, Austria,

Technical service: Tel: +43/1/291 07 41, Fax +43/1/290 14 29

### **SECTION 2. COMPOSITION INFORMATION.**

This product is a preparation.

Hazardous Substance	Concentration in the preparation	Classification	CAS No./ EINECS No.
5-chloro-2-methyl-4-isothiazolin-3-one	1.05 – 1,25 %	Corrosive – (C)	26172-55-4/2475007
2-Methyl-4-isothiazolin-3-one	0.25 – 0.45 %	Corrosive – (C)	2682-20-4/2202396

### SECTION 3. HAZARD IDENTIFICATION.

Primary routes of Exposure:

Skin contact: Skin irritation effects can be delayed for hours. Material can cause the following: corrosion to the skin, burns, allergic contact dermatitis.

Eye contact: Material can cause corrosion to eyes - permanent, irreversible eye injury

Inhalation: Inhalation of vapor or mist can cause irritation of nose and throat.

### SECTION 4. FIRST AID PROCEDURES.

Eye and skin contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wash affected skin area thoroughly with soap and water (S28). Remove and wash contaminated clothing thoroughly. Discard contaminated shoes, belts and other articles made of leather.

Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped.

Ingestion: If swallowed, give 2 glasses of water to drink. Immediately see a physician.

Never give anything by mouth to an unconscious person.

### SECTION 5. FIRE FIGHTING MEASURES.

Unusual Hazards:

Combustion generates toxic fumes of the following: hydrogen chloride, nitrogen oxides, sulfur oxides.

Extinguishing agents: water, foam, dry chemical or carbon dioxide appropriate for surrounding fire.

Personal Protective Equipment: Wear self-contained breathing apparatus and full protective gear.

### SECTION 6. ACCIDENTAL RELEASE MEASURES.

Wear self-contained breathing apparatus or a full-facepiece airline respirator in patible, chemically resistant gloves.

Material is corrosive. If exposed to material during clean-up operations, immediately remove all contaminated clothing and wash exposed skin areas with soap and water.

Prevent skin contact by using rubber gloves and wearing lab coat.

**SECTION 7. HANDLING AND STORAGE.**

Keep container tightly closed. Store in a well ventilated area.  
 Store at the recommended temperature on the vial label.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.**

See sections 6 and 7.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.**

Appearance	Clear liquid
Odour	Amber
pH	1.5 to 3.0
Melting point	-21°C
Boiling point	100°C
Specific gravity	1.2 g/cm <sup>3</sup>
Explosive properties	Not explosive
Vapour density	0.65
Vapour pressure	13.3 Pa Isothiazolone
Solubility in water	Fully soluble

**SECTION 10. STABILITY AND REACTIVITY.**

The product is considered stable under specific conditions of storage, shipment and/or use. See section 7.

Hazardous Decomposition Products: Thermal decomposition may yield hydrogen chloride, sulfur dioxide and oxides of nitrogen.

Product will not undergo polymerization.

Incompatibility: Avoid contact with oxidizing agents, reducing agents, amines and mercaptans.

**SECTION 11. TOXICOLOGICAL INFORMATION.**

Acute Data:

Oral LD50 – rat: 3350 mg/kg

Dermal LD50 – rabbit: >5000 mg/kg

Eye irritation – rabbit: corrosive

Skin irritation – rabbit: severe irritation, may be corrosive.

Toxicity data for the active ingredient are listed below.

Inhalation LC50 4 hr, vapor exposure – rat: 0.33 mg/L

Sensitization Data:

Allergic contact dermatitis observed.

**SECTION 12. ECOLOGICAL INFORMATION.**

No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS.**

Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

**SECTION 14. TRANSPORT INFORMATION.**

Shipping name                   corrosive liquid, N.O.S.  
 Identification Number           1760  
 Packing group                   III  
 Label                            Corrosive liquid  
 ADR Class                        8,66°C

**SECTION 15. REGULATORY INFORMATION.**

Information for Europe:

Components	CAS Reg. No.	EINECS	Weight %
5-chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	2475007	1,05-1,25
2-Methyl-4-isothiazolin-3-one	2682-20-4	2202396	0,25-045
Magnesium Chloride	7786-30-3	2320946	0,5-1,0
Magnesium nitrate	10377-60-3	2338267	21-25
Water	7732-18-5	2317912	74-77

Proclin preservative presents in the used concentration no toxicological problems or health hazards.

Corrosive (C)/ R(36-37-38)/ S26-S36

**SECTION 16. OTHER INFORMATION.**

SHEET 3

Safety Data Sheet

**Sulfuric acid H<sub>2</sub>SO<sub>4</sub> <10%**

**SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY.**

Sulfuric acid H<sub>2</sub>SO<sub>4</sub>. This substance is vialled separately and constitutes the stop solution of several enzyme immunoassays. This data sheet is provided together with the material safety data sheet of each immunoassay.

Manufacturer/Supplier: BIOMEDICA MEDIZINPRODUKTE GmbH & Co KG, A-1210  
 Vienna, Divischgasse 4, Austria,  
 Technical service: Tel: +43/1/291 07 41, Fax +43/1/291 14 29

## SECTION 2. COMPOSITION INFORMATION.

Hazardous Substance	Concentration in the preparation	Classification	CAS No./ EEC No.
Sulfuric acid (H <sub>2</sub> SO <sub>4</sub> )	conc.<10 %	Irritant – (X <sub>i</sub> )	7664-93-9 88/379

Sulfuric acid is classified as Irritant (X<sub>i</sub>) within the meaning of European Directive 67/548/EWG, in the range of concentrations 5 to <10 %.

Causes burns (R36/38)

Other ingredients in the preparation: water.

Other possible hazardous components: none.

## SECTION 3. HAZARD IDENTIFICATION.

Sulfuric acid is classified as Irritant (X<sub>i</sub>) under the EC Directive 88/379/EEC, in the range of concentrations 5 to <10%.

Causes burns (R36/38)

In case of accident or if you feel unwell, seek medical advice immediately and show label where possible (S 45).

## SECTION 4. FIRST AID PROCEDURES.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26).

Skin contact: After contact with skin, wash immediately with plenty of water (S28).

Inhalation: No known hazard.

Ingestion: Call a physician.



#### **SECTION 5. FIRE FIGHTING MEASURES.**

Aqueous solution, Non-flammable. No special precautions are required to remove the product from a fire arising in the vicinity.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES.**

Prevent skin contact by using rubber gloves and wearing lab coat.

#### **SECTION 7. HANDLING AND STORAGE.**

Use rubber gloves and lab coat (S36/37). Wear eye/face protection (S39).  
Keep container tightly closed.  
Store at the recommended temperature on the vial label.

#### **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.**

No special protection is required, other than standard good laboratory practices. See sections 6 and 7.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.**

Appearance	Clear liquid
Odour	None
pH	Approx. 1
Flammability	Not flammable
Explosive properties	Not explosive
Relative density	Approx. 1.05
Solubility in water	Fully soluble

#### **SECTION 10. STABILITY AND REACTIVITY.**

The product is stable and will not polymerize.

#### **SECTION 11. TOXICOLOGICAL INFORMATION.**

No specific toxicological data is available for this product.

#### **SECTION 12. ECOLOGICAL INFORMATION.**

This product is unlikely to have any effect on the environment if handled according to instructions for use. See section 13.

#### **SECTION 13. DISPOSAL CONSIDERATIONS.**

Depending on local effluent discharge regulations, flush to drain, or dispose of under land-fill conditions.

#### **SECTION 14. TRANSPORT INFORMATION.**

No special precaution is required.

## SECTION 15. REGULATORY INFORMATION.

Information for Europe:

5% ≤ H<sub>2</sub>SO<sub>4</sub> < 10%, the product is classified as follows:

**Irritant (Xi)/ R(36/38)/ S26-28-(36-37)-39-45.**

## SECTION 16. OTHER INFORMATION.

This product is intended to be used only by trained laboratory personnel.

SHEET 8

Material Safety Data Sheet

<b>BSA</b>
------------

Manufacturer/Supplier: BIOMEDICA MEDIZINPRODUKTE GmbH & Co KG,  
A-1210 Vienna, Divischgasse 4, Austria,  
Technical service: Tel: +43/1/291 07 41, Fax +43/1/290 14 29

Name of product: see product safety data sheet.

## SECTION 1. MATERIAL IDENTIFICATION AND INFORMATION.

Hazardous component: Component from animals.

## SECTION 2. PHYSICAL / CHEMICAL CHARACTERISTICS. N/A

## SECTION 3. FIRE AND EXPLOSION HAZARD DATA. N/A.

## SECTION 4. REACTIVITY HAZARD DATA.

Biological Hazard. The reagents used to prepare this product were derived from animals free of infectious or contagious diseases..

## SECTION 5. HEALTH HAZARD DATA.

Risk of virus contamination. No known test method can offer total assurance that products derived from animals will not transmit foot and mouth disease, rinderpest or BSE.

Emergency first aid procedures: Wash with a disinfectant such as dilute bleach.

## SECTION 6. CONTROL AND PROTECTIVE MEASURES.

Use rubber gloves and lab coat.

## SECTION 7. PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURE.

If material is spilled, wash spill area with bleach or other strong disinfectant.  
Disposal: Dispose of cleaning liquid to drain. Dispose of unused remainder in

incinerator. Precautions: Prevent skin contact by using rubber gloves and wearing lab coat. Keep vial tightly closed when not in use.  
Follow all applicable laws and regulations for waste disposal.