

## Material Safety Data Sheet

### Section I: Product and Company Information

**Product Trade Name** ..... TMB SMALL PARTICLE ONE COMPONENT HRP MEMBRANE SUBSTRATE

**Product Number**..... SPPM

**Product Use Description**..... For *in vitro* research and manufacturing use only

**Manufacturer's Name**..... BioFX Laboratories, Inc.  
**Address**..... 10715 Red Run Blvd, Suite 114  
Owings Mills, MD 21117 US

**Emergency Telephone Number** ..... CHEMTREC: 1-800-424-9300 (US and Canada)  
1-703-527-3887 (International shipments)

**Telephone Number for Information**.... (800) 445-6447  
**Fax Number** ..... (410) 902-0551  
**Prepared by** ..... Clinical & Regulatory Affairs, SurModics, Inc.

### Section II: Hazards Identification

#### **EMERGENCY OVERVIEW:**

**WARNING! MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.**

Based on percentages of hazardous ingredients in this product, this product is not classified as “dangerous” under EU Directives (67/548/EEC and 1999/45/EC) or hazardous under US OSHA Hazard Communication regulations (29 CFR 1910.1200).

#### **POTENTIAL HEALTH EFFECTS:**

**Skin:** May be harmful if absorbed through the skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

#### **Carcinogenicity**

No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

### Section III: Composition/Information on Ingredients

Ingredient Name	CAS #	%	EINECS #	EU Classification (See Section XVI)
Water	7732-18-5	>90%	231-791-2	Not Classified
Proprietary Ingredient	Proprietary	5%	Proprietary	R36/38, S24/25
Proprietary formulation; no other hazardous components above 1% or carcinogens above 0.1%	Proprietary	Balance	Proprietary	Not Classified
3,3',5,5'-tetramethylbenzidine (non-carcinogenic analog of benzidine)	54827-17-7	≤0.05% w/v	259-364-6	Xi, R36/37/38, S26-36

### Section IV: First Aid Measures

<b>Eye Exposure</b> .....	In case of contact, wash eyes immediately with large amounts of water or normal saline for at least 15 minutes, lifting the upper and lower lids to assure adequate flushing. Seek medical attention if irritation develops.
<b>Skin Exposure</b> .....	In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if irritation develops.
<b>Ingestion</b> .....	If swallowed, consult with medical staff or poison control center to determine if any immediate response or follow-up actions are recommended. Never give anything by mouth to an unconscious person.
<b>Inhalation</b> .....	If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.
<b>Notes to Physicians</b> .....	None

### Section V: Fire Fighting Measures

**NFPA Hazard Classification** ..... Health: 1 Flammability: 0 Reactivity: 0 Other:

**Extinguishing Media** ..... No restriction; use any means suitable for extinguishing surrounding fire.

**Fire Fighting Procedure** ..... Wear full protective clothing, including self-contained breathing apparatus, if necessary. The product presents no special fire hazards in normal use.

#### **Hazardous Combustion**

**Products** ..... Toxic gases and vapors may be released if involved in a fire.

#### **Unusual Fire and Explosion**

**Hazards** ..... None

### Section VI: Accidental Release Measures

#### *STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:*

Wear appropriate personal protective equipment as specified in Section VIII. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not flush to sewer!

## Section VII: Handling and Storage

### HANDLING:

Refer to Section VIII for recommended precautionary measures when handling *TMB SMALL PARTICLE ONE COMPONENT HRP MEMBRANE SUBSTRATE*.

### STORAGE:

Store at 2°C - 25°C. Keep lid tightly closed and avoid light and elevated temperatures.

## Section VIII: Exposure Control / Personal Protection

### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

This product contains no substances with occupational exposure limits.

### ENGINEERING CONTROLS:

Local exhaust ventilation is recommended. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### PERSONAL PROTECTIVE EQUIPMENT:

- Eye protection – safety goggles or glasses with side shields
- Skin protection – lab coat
- Hand protection – rubber or vinyl gloves are recommended
- Respiratory protection – may use an approved/certified vapor respirator if ventilation is inadequate

### GENERAL HYGIENE CONTROLS:

- Practice good chemical hygiene when handling
- Avoid contact with eyes, skin and clothing
- Do not ingest material

## Section IX: Physical and Chemical Properties

<b>Flash Point</b> .....	Not Available	<b>Specific Gravity (H<sub>2</sub>O=1)</b> .....	Not Available
<b>Flammable Limits</b> .....	Not Available	<b>Melting Point</b> .....	Not Available
<b>Auto-Ignition Temperature</b> .....	Not Available	<b>Freezing Point</b> .....	Not Available
<b>Flammability (solid, gas)</b> .....	Not Flammable	<b>Evaporation Rate</b> .....	Not Available
<b>Explosive Properties</b> .....	Not Explosive	<b>Boiling Point</b> .....	Not Available
<b>Oxidizing Properties</b> .....	Not an Oxidizer	<b>Viscosity</b> .....	Not Available
<b>Vapor Pressure (mmHg)</b> .....	Not Available	<b>pH</b> .....	5.25 - 5.65
<b>Vapor Density (AIR=1)</b> .....	Not Available	<b>Percent Volatiles</b> .....	Not Available
<b>Relative Density</b> .....	Not Available	<b>Solubility in Water</b> .....	Aqueous
<b>Partial coefficient:</b>			
<b>n-octanol/water</b> .....	Not Available		
<b>Appearance</b> .....	Faint yellow to pink solution		
<b>Physical State</b> .....	Liquid solution		
<b>Odor</b> .....	None		

## Section X: Stability and Reactivity Data

Stability .....	Chemically stable under ordinary conditions of use and storage.
Conditions to Avoid .....	Light, elevated temperatures and moisture.
Materials to Avoid .....	Strong oxidizing agents and metals.
Hazardous Decomposition or Byproducts.....	Toxic fumes of carbon oxides (CO, CO <sub>2</sub> ) and nitrogen oxide.
Hazardous Polymerization .....	Will not occur

## Section XI: Toxicological Information

The toxicological properties of this material have not been investigated.

## Section XII: Ecological Information

No data available.

## Section XIII: Disposal Considerations

### *APPROPRIATE WASTE DISPOSAL METHOD:*

Observe all federal, state and local laws when considering most appropriate disposal method. Contact a licensed professional waste disposal service to dispose of this material.

## Section XIV: Transport Information

UN Number.....	Non-regulated, non-hazardous for transport
UN Proper Shipping Name.....	Non-regulated, non-hazardous for transport
Transport Hazard Class(es) .....	Non-regulated, non-hazardous for transport
Packing Group .....	Non-regulated, non-hazardous for transport
Environmental Hazard .....	Not Available
Reportable Quantity (RQ) .....	None known
Emergency Telephone Number .....	CHEMTREC: 1-800-424-9300 (US and Canada) 1-703-527-3887 (International shipments)
(During Transport)	
Special Precautions for User .....	None known

## Section XV: Regulatory Information

### US FEDERAL REGULATIONS

#### *CERCLA (COMPREHENSIVE 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.

This safety data sheet has been prepared to comply with the requirements of Annex II, European Community Regulation No. 1907/2006 (REACH) and ANSI Z400.1-2004 guidelines.

## **Section XVI: Other Information**

### EU CLASSIFICATION:

Hazard Code: Xi = Irritant  
Risk Statement: 36 = Irritating to the eyes  
37 = Irritating to the respiratory system  
38 = Irritating to the skin  
Safety Statement: 24/25 = Avoid skin and eye contact  
26 = In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
27 = Take off immediately all contaminated clothing  
28 = After contact with skin, wash immediately with plenty of water  
29 = Do not empty into drains  
30 = Never add water to this product  
33 = Take precautionary measures against static discharges  
35 = This material and its container must be disposed of in a safe way  
36 = Wear suitable protective clothing

*The above product is for research and manufacturing use only and is not intended for use in humans, therapeutic, or diagnostic purposes. This information is believed to be correct, but SurModics, Inc. makes no representation of its accuracy or completeness. Persons receiving this information must exercise their independent judgment in determining the product's safety and suitability for its intended use. SURMODICS, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF THE PRODUCT OR RELIANCE UPON THIS INFORMATION.*