

Material Safety Data Sheet

Section I: Product and Company Information

Product Trade Name **TMB CONDUCTIVITY COMPONENT HRP MICROWELL SUBSTRATE**

Product Number..... TMBC

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	>80%	231-791-2	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
Proprietary formulation; no other hazardous components above 1% or carcinogens above 0.1%	Proprietary	<20%	Proprietary	Not Classified

Section IV: First Aid Measures

Eye Exposure	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.
Skin Exposure	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.
Ingestion	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.
Inhalation	If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.
Notes to Physicians	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 CONDUCTIVITY ONE COMPONENT HRP MICROWELL SUBSTRATE*.

STORAGE:

Store at 2°C - 8°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

Flash Point	Not Available	Specific Gravity (H₂O=1)	1.01 (H ₂ O=1.0)
Flammable Limits	Not Available	Melting Point	Not Available
Auto-Ignition Temperature	Not Available	Freezing Point	Not Available
Flammability (solid, gas)	Not Flammable	Evaporation Rate	Not Available
Explosive Properties	Not Explosive	Boiling Point	Not Available
Oxidizing Properties	Not an Oxidizer	Viscosity	Not Available
Vapor Pressure (mmHg)	Not Available	pH	3.5 - 3.9
Vapor Density (AIR=1)	Not Available	Percent Volatiles	Not Available
Relative Density	Not Available	Solubility in Water	Aqueous
Partial coefficient:			
n-octanol/water	Not Available		
Appearance	Clear to light yellow		
Physical State	Liquid solution		
Odor	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 ²) 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)
(During Transport)	1-703-527-3887 (International shipments)
Special Precautions for User	None known

Section XV: Regulatory Information

US FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT)

The individual components of this mixture are listed on the TSCA inventory.

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 (3,3',5,5'-tetramethylbenzidine):

Hazard Code: Xi = Irritant

Risk Statement: 36 = Irritating to the eyes
37 = Irritating to the respiratory system
38 = Irritating to the skin

Safety Statement: 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

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