

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name : BioFX® Phosphate Buffered Saline/Casein Block and Diluent - 5X Concentrate  
Product code : PBSC  
Product group : Trade product

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/mixture : For laboratory use

**1.2.2. Uses advised against**

No additional information available

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

Surmodics, Inc.  
9924 West 74th Street  
Eden Prairie, MN 55344 US  
Phone: (952) 500-7000  
Fax: (952) 500-7001

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300 (US and Canada) / 1-703-527-3887 (International shipments)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements**

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

**2.3. Other hazards**

Other hazards not contributing to the classification : None under normal conditions.

**SECTION 3: Composition/information on ingredients****3.1. Substance**

Not applicable

**3.2. Mixture**

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

# BioFX® Phosphate Buffered Saline/Casein Block and Diluent - 5X Concentrate

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: IF ON SKIN (or clothing), remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation persists, call a physician.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause slight temporary irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.
Chronic symptoms	: No data available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: No data available.
Explosion hazard	: Product is not explosive.

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No specific emergency measures are required other than good laboratory hygiene and safety practices.

##### 6.1.1. For non-emergency personnel

Protective equipment	: Wear Protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.
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#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Wash spill area thoroughly with plenty of soap and water.

#### 6.4. Reference to other sections

No additional information available

# BioFX® Phosphate Buffered Saline/Casein Block and Diluent - 5X Concentrate

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place. Avoid elevated temperatures.  
Storage temperature : 2 – 8°C

#### 7.3. Specific end use(s)

For laboratory use.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas.  
Personal protective equipment : Gloves. Protective goggles.  
Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.  
Eye protection : Chemical goggles or safety glasses.  
Skin and body protection : Wear suitable protective clothing. Wear long sleeves.  
Respiratory protection : Where excessive vapour, mist, or dust may result, use NIOSH approved respiratory protection equipment.



### SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Appearance : Clear, colorless to light yellow  
Color : Colorless to light yellow  
odor : No data available  
Odor threshold : No data available  
pH : Neutral  
Relative evaporation rate (butyl acetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : Not Flammable  
Vapor pressure : No data available  
Relative vapor density at 20 °C : No data available  
Relative density : No data available  
Solubility : Water: 100%  
Log Pow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : Product is not explosive.

# BioFX® Phosphate Buffered Saline/Casein Block and Diluent - 5X Concentrate

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Oxidizing properties : Not an Oxidizer.  
Explosion limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Elevated temperatures.

### 10.5. Incompatible materials

Strong oxidizing agents. Metals.

### 10.6. Hazardous decomposition products

Hazardous fumes of nitrous oxides (NOx), carbon oxides, sulfur oxides, phosphorus oxides, and metal oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effect

Acute toxicity : Not classified No data available  
Irritation : Not classified No data available  
pH: Neutral  
Corrosivity : Not classified No data available  
pH: Neutral  
Sensitization : Not classified No data available  
Repeated dose toxicity : Not classified No data available  
Carcinogenicity : Not classified No data available  
Mutagenicity : Not classified No data available  
Toxicity for reproduction : Not classified No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : No data available.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

# BioFX® Phosphate Buffered Saline/Casein Block and Diluent - 5X Concentrate

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- |                                |   |   |
|--------------------------------|---|---|
| Waste treatment methods        | : | Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.                                |
| Waste disposal recommendations | : | Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment. |

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not hazardous for transport

#### 14.2. UN proper shipping name

- |                             |   |                |
|-----------------------------|---|----------------|
| Proper Shipping Name (ADR)  | : | Not applicable |
| Proper Shipping Name (IMDG) | : | Not applicable |
| Proper Shipping Name (IATA) | : | Not applicable |
| Proper Shipping Name (ADN)  | : | Not applicable |
| Proper Shipping Name (RID)  | : | Not applicable |

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : Not applicable

##### IMDG

Transport hazard class(es) (IMDG) : Not applicable

##### IATA

Transport hazard class(es) (IATA) : Not applicable

##### ADN

Transport hazard class(es) (ADN) : Not applicable

##### RID

Transport hazard class(es) (RID) : Not applicable

#### 14.4. Packing group

- |                      |   |                |
|----------------------|---|----------------|
| Packing group (ADR)  | : | Not applicable |
| Packing group (IMDG) | : | Not applicable |
| Packing group (IATA) | : | Not applicable |
| Packing group (ADN)  | : | Not applicable |
| Packing group (RID)  | : | Not applicable |

#### 14.5. Environmental hazards

- |                               |   |  |
|-------------------------------|---|--|
| Dangerous for the environment | : | No                                     |
| Marine pollutant              | : | No                                     |
| Other information             | : | No supplementary information available |

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

Not applicable

##### 14.6.2. Transport by sea

Not applicable

##### 14.6.3. Air transport

Not applicable

##### 14.6.4. Inland waterway transport

Not subject to ADN : No

##### 14.6.5. Rail transport

Carriage prohibited (RID) : No

# BioFX® Phosphate Buffered Saline/Casein Block and Diluent - 5X Concentrate

## Safety Data Sheet

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### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

BioFX® Phosphate Buffered Saline/Casein Block and Diluent - 5X Concentrate is not in the REACH candidate List

Contains no substance on the REACH candidate List

Contains no REACH Annex XIV substances

#### 15.1.2. International regulations

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Indication of changes:

Revision 00: Revised to GHS.

Revision 01: Periodic review.

Other information : Author: DRH.

Full text of H- and EUH-phrases: None

SDS EU (REACH Annex II)

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