

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**

Product name : BioFX® BCIP/NBT Blue One Component AP Membrane Substrate  
 Product form : Mixture  
 Product code : BCIB

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

Use of the substance/mixture : For laboratory use

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

SurModics, Inc.  
 9924 West 74th Street  
 Eden Prairie, MN 55344 USA  
 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**
**GHS-US classification**

Skin Sens. 1 H317

**2.2. Label elements**
**GHS-US labelling**

Hazard pictograms (GHS-US) :



GH507

Signal word (GHS-US) :

**Warning**

Hazard statements (GHS-US) :

H317 - May cause an allergic skin reaction

Precautionary statements (GHS-US) :

P261 - Avoid breathing fume, mist, vapours, spray  
 P272 - Contaminated work clothing must not be allowed out of the workplace  
 P280 - Wear eye protection, face protection, protective clothing, protective gloves  
 P302+P352 - If on skin: Wash with plenty of water  
 P321 - Specific treatment (see Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work on this label)  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
 P362+P364 - Take off contaminated clothing and wash it before reuse  
 P501 - Dispose of contents/container to licensed waste handling facility

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS-US)**

No data available

### SECTION 3: Composition/information on ingredients

**3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Product identifier	%
Trade Secret Ingredient 1	Proprietary Information	0.1 - 1
Trade Secret Ingredient 2	Proprietary Information	0.1 - 1

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### 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. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- 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. Seek medical attention if rash or irritation develops.
- First-aid measures after eye contact : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : IF SWALLOWED: Rinse mouth, Do NOT induce vomiting, Call a POISON CENTER/doctor/physician if you feel unwell.

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

- Symptoms/injuries : May cause an allergic skin reaction.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : May cause skin irritation or allergic reaction.
- Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.
- Symptoms/injuries after ingestion : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.
- Chronic symptoms : Skin sensitization.

#### 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. Carbon dioxide. Dry powder. Water spray. Sand.
- Unsuitable extinguishing media : None known.

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

- Fire hazard : The product is not flammable.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known under normal conditions of use.

#### 5.3. Advice for firefighters

- Precautionary measures fire : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 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. Wear self-contained breathing apparatus and protective suit (see item 8).

### SECTION 6: Accidental release measures

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

- General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

##### 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.

#### 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 : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Sweep up loose material. Place residues in suitable, covered, and labeled container. This material and its container must be disposed of in a safe way, and as per local legislation.

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### 6.4. Reference to other sections

See Sections 8 and 13.

## 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). Keep away from sources of ignition - No smoking. 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 the container tightly closed. Store in a dry, cool and well-ventilated place. Store away from light. Avoid elevated temperatures.

Storage temperature : Refrigerated or room temperature

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Gloves. Protective goggles. Wear labcoat with full coverage clothing.



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: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection : Eye protection, including both chemical splash goggles, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Lab coat. 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 : Colorless to pale yellow liquid.

Color : Clear. light yellow.

Odor : None.

Odor Threshold : No data available

pH : 9.6 - 10

Relative evaporation rate (butylacetate=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

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : 1.01 (H<sub>2</sub>O = 1.0)

Solubility : Water: 100 %

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

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Viscosity, dynamic : No data available  
 Explosive properties : Product is not explosive.  
 Oxidising properties : Not an Oxidizer.  
 Explosive 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**  
 Light. Elevated temperatures. Moisture.

**10.5. Incompatible materials**  
 Strong oxidizing agents.

**10.6. Hazardous decomposition products**  
 Thermal decomposition generates : Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**  
 Acute toxicity : Not classified

<b>Trade Secret Ingredient 1</b>	
LD50 oral rat	9200 mg/kg
<b>Trade Secret Ingredient 2</b>	
LD50 oral rat	708 mg/kg (Source: IUCLID)
LD50 dermal rabbit	1560 mg/kg (Source: NLM_CIP)
LC50 inhalation rat (mg/l)	> 720 mg/m <sup>3</sup> 1 h; (Source: NLM_CIP)

Skin corrosion/irritation : Not classified  
 pH: 9.6 - 10

Serious eye damage/irritation : Not classified  
 pH: 9.6 - 10

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause skin irritation or allergic reaction.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic symptoms : Skin sensitization.

**SECTION 12: Ecological information**

**12.1. Toxicity**  
 Ecology - general : No information available.

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**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.

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 DOT**

Not hazardous for transport

**Additional information**

Other information : No supplementary information available.

**Transport by sea**

No additional information available

**Air transport**

No additional information available

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

**BioFX® BCIP/NBT Blue One Component AP Membrane Substrate**

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory  
All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list

SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
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**Maleic acid (110-16-7)**

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb Final
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**15.2. International regulations**

**CANADA**

No additional information available

**15.3. US State regulations**

**California Proposition 65**

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

**SECTION 16: Other information**

Indication of changes : Revision 1: New SDS Created.

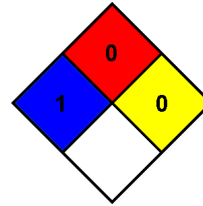
Revision date : 07-Nov-2014

Other information : Author: BCS.

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NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.  
NFPA fire hazard : 0 - Materials that will not burn.  
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



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