

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

Product name : BioFX™ Chemiluminescent AP Substrates  
Super Sensitive AP Microwell and/or Membrane Substrate (450 nm), Super Sensitive AP Microwell and/or Membrane Substrate (540 nm), Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm), Ultra Sensitive AP Microwell and/or Membrane Substrate (540 nm)

Product form : Mixture

Product code : APS4, APS5, APU4, APU5

Chemical family : 1,2-Dioxetanes, soluble in aqueous system

**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**
**Classification (GHS-US)**

Not classified

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

No labelling applicable

**2.3. Other hazards**

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

**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	%
Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		100

**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. Get medical attention if breathing is affected.

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 develops or persists, get medical attention.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

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

Symptoms/injuries	: May be harmful by inhalation. May cause skin and/or eye irritation in susceptible persons. May be harmful if swallowed.
Symptoms/injuries after inhalation	: May be harmful by inhalation.
Symptoms/injuries after skin contact	: May cause skin irritation in susceptible persons.
Symptoms/injuries after eye contact	: May cause eye irritation in susceptible persons.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
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 chemical. Carbon dioxide. Water spray.
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### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Nonflammable aqueous solution.
Explosion hazard	: Product is not explosive.
Reactivity	: No dangerous reactions known under normal conditions of use.

### 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. 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).
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#### 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 further leakage or spillage if safe to do so. 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 absorbent material. Place residues in suitable, covered, and labelled container. This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

No additional information available

## 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). Use good laboratory procedures; avoid eye and skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place away from heat sources. Keep container closed when not in use.
Storage temperature	: 2 - 8 °C

### 7.3. Specific end use(s)

No additional information available

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### 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. Safety glasses or 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: 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 vapor, 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

Color

: Colorless to yellow/green.

Odor

: No data available.

Odor Threshold

: Not applicable.

pH

: Basic

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

: Not applicable.

Auto-ignition temperature

: Not applicable.

Decomposition temperature

: No data available

Flammability (solid, gas)

: Not applicable.

Vapor pressure

: No data available

Relative vapor density at 20 °C

: No data available

Relative density

: No data available

Solubility

: No data available

Log Pow

: No data available

Log Kow

: No data available

Viscosity, kinematic

: No data available

Viscosity, dynamic

: No data available

Explosive properties

: Product is not explosive.

Oxidizing properties

: No data available

Explosive limits

: Not applicable.

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

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

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### 10.3. Possibility of hazardous reactions

No further relevant information available.

### 10.4. Conditions to avoid

Strong acids, strong bases, strong oxidizers. Light. Elevated temperatures.

### 10.5. Incompatible materials

No further relevant information available.

### 10.6. Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: May cause skin irritation in susceptible persons.
Serious eye damage/irritation	: May cause eye irritation in susceptible persons.
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA, or 67/548/EEC Annex I.
Reproductive toxicity	: No data available
Specific target organ toxicity (single exposure)	: No data available
Specific target organ toxicity (repeated exposure)	: No data available
Aspiration hazard	: No data available
Symptoms/injuries after inhalation	: May be harmful by inhalation.
Symptoms/injuries after skin contact	: May cause skin irritation in susceptible persons.
Symptoms/injuries after eye contact	: May cause eye irritation in susceptible persons.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Chronic symptoms	: No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: No data available.
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### 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. Other adverse effects

No additional information 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.
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# BioFX™ Chemiluminescent Sensitive AP Substrates

## Safety Data Sheet

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

SARA Section 313

Hydrochloric Acid is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

### 15.2. International regulations

#### CANADA

No additional information available

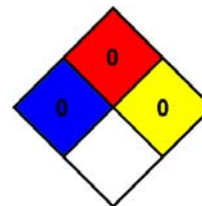
### 15.3. US State regulations

#### 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 01: New SDS Created. Revision 01: Periodic Review.
Revision date	: Dec-2020
Other information	: Author: DRH
NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
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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