

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Preparation Date: 03.18.2025

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**BioFX™ (NSTP) 450 nm Liquid Nova-Stop Solution for TMB Microwell Substrates**

### SECTION 1: Identification

#### Product Identifier

**Product Name:** BioFX™ (NSTP) 450 nm Liquid Nova-Stop Solution for TMB Microwell Substrates

**Product code:** NSTP

**Additional information:** Mixture

#### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** For Laboratory Use

**Uses Advised Against:** Any use other than recommended above.

**Reasons Why Uses Advised Against:** Not determined or not applicable.

#### Manufacturer or Supplier Details

**Manufacturer:**

**United States**

Surmodics, Inc.

9924 West 74th St

Eden Prairie, Minnesota 55344

952-500-7000

www.surmodics.com

#### Emergency Telephone Number:

**United States**

CHEMTREC US & Canada

1-800-424-9300 (24 Hours/day, 7 Days/week)

### SECTION 2: Hazard(s) Identification

#### GHS Classification:

Corrosive to metals, category 1

#### Label elements

##### Hazard Pictograms:



**Signal Word:** Warning

#### Hazard statements:

H290 May be corrosive to metals

#### Precautionary Statements:

P234 Keep only in original container

P390 Absorb spillage to prevent material-damage

P406 Store in corrosive resistant container with a resistant inner liner.

**Hazards Not Otherwise Classified:** None

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#### SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 75-75-2	Methanesulphonic acid	<10

##### Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

#### SECTION 4: First Aid Measures

##### Description of First Aid Measures

###### General Notes:

Show this Safety Data Sheet to the doctor in attendance.

###### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

###### After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

###### After Eye Contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

###### After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

##### Most Important Symptoms and Effects, Both Acute and Delayed

###### Acute Symptoms and Effects:

Products that are corrosive to metals are often corrosive to the skin, eyes and the respiratory tract.

###### Delayed Symptoms and Effects:

No significant delayed effects/symptoms.

##### Immediate Medical Attention and Special Treatment

###### Specific Treatment:

Not determined or not applicable.

###### Notes for the Doctor:

Treat symptomatically.

#### SECTION 5: Firefighting Measures

##### Extinguishing Media

###### Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

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#### Unsuitable Extinguishing Media:

Do not use water jet.

#### Specific Hazards During Fire-Fighting:

Contact with metals may evolve flammable hydrogen gas. Thermal decomposition may produce irritating/toxic fumes/gases.

#### Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

#### Special precautions:

DO NOT GET WATER INSIDE CONTAINERS. Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

### SECTION 6: Accidental Release Measures

#### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

#### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

#### Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable corrosive resistant containers for future disposal. Do not get water in containers as reaction with water or moist air may release toxic, corrosive or flammable gases. Dispose of in accordance with all applicable regulations (see Section 13).

#### Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

### SECTION 7: Handling and Storage

#### Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Prevent skin contact. Do not get in eyes. Use only with adequate ventilation. Do not add water to the corrosive product. If it is necessary to mix a corrosive product with water, do so slowly adding the corrosive to cold water, in small amounts, and stir frequently. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use. Keep only in original packaging.

#### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight and away from exit paths. Store in a corrosion-resistant container with a resistant inner liner. Inspect containers and storage area regularly for signs of leak and damage. Store containers at a convenient height for handling, below eye level if possible. High shelving increases the risk of dropping containers, personal injury and exposure. Ensure that appropriate fire fighting and spill-clean up equipment is readily available. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Store separately. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

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#### SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

##### Occupational Exposure Limit Values:

No occupational exposure limits noted for the ingredient(s).

##### Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

##### Information on Monitoring Procedures:

Not determined or not applicable.

##### Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

##### Personal Protection Equipment

###### Eye and Face Protection:

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

###### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Full body protection should be worn. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

###### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

##### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

#### SECTION 9: Physical and Chemical Properties

##### Information on Basic Physical and Chemical Properties

Appearance	Clear, colorless liquid
Odor	Mild
Odor threshold	Not determined or not available.
pH	<1
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.

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Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Soluble in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### SECTION 10: Stability and Reactivity

#### Reactivity:

Not reactive under recommended handling and storage conditions.

#### Chemical Stability:

Stable under recommended handling and storage conditions.

#### Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

#### Conditions to Avoid:

Avoid generation of aerosols and mists, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

#### Incompatible Materials:

None known.

#### Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological Information

#### Acute Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

Name	Route	Result
Methanesulphonic acid	oral	LD50 Rat: 860.1 mg/kg
	dermal	LD50 Rabbit: >1000 mg/kg

#### Skin Corrosion/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

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No data available.

#### Substance Data:

Name	Result
Methanesulphonic acid	Causes severe skin burns.

#### Serious Eye Damage/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

#### Substance Data:

Name	Result
Methanesulphonic acid	Causes serious eye damage.

#### Respiratory or Skin Sensitization

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:** No data available.

#### International Agency for Research on Cancer (IARC):

Name	Classification
Methanesulphonic acid	Not Applicable

#### National Toxicology Program (NTP):

Name	Classification
Methanesulphonic acid	Not Applicable

**OSHA Carcinogens:** Not applicable

#### Germ Cell Mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

#### Reproductive Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

#### Specific Target Organ Toxicity (Single Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

#### Substance Data:

Name	Result
Methanesulphonic acid	May cause respiratory irritation.

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#### Specific Target Organ Toxicity (Repeated Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

#### Information on Likely Routes of Exposure:

Inhalation; Ingestion; Skin contact; Eye contact

#### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

Refer to Section 4 of this SDS.

#### Other Information:

No data available.

## SECTION 12: Ecological Information

#### Acute (Short-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:**

Name	Result
Methanesulphonic acid	Aquatic Invertebrates EC50 Daphnia magna: 70 mg/L (48 hr [mobility])
	Fish LC50 Oncorhynchus mykiss: 73 mg/L (96 hr)
	Aquatic Plants EC50 Raphidocelis subcapitata: 12 -24 mg/L (72 hr [Growth rate])

#### Chronic (Long-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:** No data available.

#### Persistence and Degradability

**Product Data:** No data available.

**Substance Data:**

Name	Result
Methanesulphonic acid	The substance is readily biodegradable (>90% degradation in 28 days measured by DOC removal).

#### Bioaccumulative Potential

**Product Data:** No data available.

**Substance Data:**

Name	Result
Methanesulphonic acid	The substance is not expected to bioaccumulate (Log Kow: -2.38).

#### Mobility in Soil

**Product Data:** No data available.

**Substance Data:**

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Name	Result
Methanesulphonic acid	The substance is highly mobile with a low potential for adsorption to soil and sediment [calculated log koc: 0].

#### Results of PBT and vPvB assessment

##### Product Data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

##### Substance Data:

###### PBT assessment:

Methanesulphonic acid	The substance is not PBT.
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###### vPvB assessment:

Methanesulphonic acid	The substance is not vPvB.
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**Other Adverse Effects:** No data available.

### SECTION 13: Disposal Considerations

#### Disposal Methods:


It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

#### Contaminated packages:


Not determined or not applicable.

### SECTION 14: Transport Information

#### United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	UN2586
UN Proper Shipping Name	Alkyl sulfonic acids, liquid
UN Transport Hazard Class(es)	8 
Packing Group	III
Environmental Hazards	None
Special Precautions for User	None

#### International Maritime Dangerous Goods (IMDG)

UN Number	UN2586
UN Proper Shipping Name	Alkyl sulfonic acids, liquid
UN Transport Hazard Class(es)	8 
Packing Group	III
Environmental Hazards	None
Special Precautions for User	None
EmS Number	F-A, S-B

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)




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UN Number	UN2586
UN Proper Shipping Name	Alkyl sulfonic acids, liquid
UN Transport Hazard Class(es)	8 
Packing Group	III
Environmental Hazards	None
Special Precautions for User	None
ERG Code	8L

### SECTION 15: Regulatory Information

#### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

**SARA Section 313 Toxic Chemicals:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

**Massachusetts Right to Know:** None of the ingredients are listed.

#### New Jersey Right to Know:

75-75-2	Methanesulphonic acid	Listed
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#### New York Right to Know:

75-75-2	Methanesulphonic acid	Listed
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**Pennsylvania Right to Know:** None of the ingredients are listed.

**California Proposition 65:** None of the ingredients are listed.

**Additional information:** Not determined.

### SECTION 16: Other Information

**Abbreviations and Acronyms:** None

#### Disclaimer:

The above product 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. ©2025 Surmodics, Inc. All rights reserved. SURMODICS, BIOFX and the SURMODICS logo are trademarks of Surmodics, Inc. and/or its affiliates.

#### Additional information:

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**End of Safety Data Sheet**