

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Preparation Date: 01.19.2026

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BioFX™ 450 nm Stop Reagent for TMB Microwell Substrates (STPR)

SECTION 1: Identification

Product Identifier

Product Name: BioFX™ 450 nm Stop Reagent for TMB Microwell Substrates (STPR)

Synonyms: None

Product code: STPR

Additional information: UN Number or ID Number: UN3261

Recommended Use of the Chemical and Restrictions on Use:

Recommended Uses: For laboratory use.

Restrictions on Use: No information available.

Manufacturer or Supplier Details

Supplier:

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 Identification

Classification of the chemical in accordance with paragraph (d) of § 1910.1200:

Acute toxicity (oral), category 4

Skin corrosion, category 1B

Serious eye damage, category 1

Skin sensitization, category 1

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Label elements

Hazard Symbol(s):



Signal Word: Danger

Hazard statement(s):

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary Statement(s):

P260 Do not breathe dust, fumes, mist, vapors or spray.

P264 Wash hands, forearms and face thoroughly after handling.

P280 Wear eye protection, face protection, protective clothing protective gloves.

P261 Do not breathe mist, vapors or spray.

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- P272 Contaminated work clothing should not be allowed out of the workplace.
P271 Use only outdoors or in a well-ventilated area.
P270 Do not eat, drink or smoke when using this product.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IN CASE OF SKIN CONTACT (or with hair): Immediately remove all contaminated clothing. Rinse skin with water.
P363 Wash contaminated clothing before reuse.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water/shower.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 If you feel unwell, contact a doctor/POISON CENTER.
P301+P312 IN CASE OF INGESTION: If you feel unwell, contact a POISON INFORMATION CENTER.
P330 Rinse mouth.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to licensed waste handling facility.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 110-16-7	Maleic acid	>60

Additional information: No additional information

SECTION 4: First Aid Measures

Description of Necessary Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

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:

Treatment is urgent. Seek emergency medical treatment. Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse.

After Eye Contact:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact

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lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

After Ingestion:

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. Seek immediate medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse.

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Immediate Medical Attention:

In case of eye contact, seek prompt medical attention while rinsing is continued.
In case of skin contact, seek prompt medical attention while rinsing is continued.
In case of ingestion, seek prompt medical attention.
If respiratory symptoms persist, seek medical attention.

Special Treatment:

No additional information.

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.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards Arising from the Chemical:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special Protective Equipment and Precautions for Fire-Fighters

Special Protective Equipment:

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

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). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

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Remove contaminated clothing and launder before reuse.

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 container for future disposal. Dispose of in accordance with all applicable regulations (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:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store locked up. Store away from other materials.

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).

Individual Protection Measures, Such as Personal Protective 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).

Safety glasses or goggles. 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. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. 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.

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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

Physical state	Solid
Color	White
Odor (includes odor threshold)	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flammability	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	Not determined or not available.
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Vapor pressure (includes evaporation rate)	Not determined or not available.
Density and/or relative density	Not determined or not available.
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

Other Information

Appearance	Powder
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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, including those associated with foreseeable emergencies:

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:

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Harmful if swallowed.

Product Data: No data available.

Substance Data:

Name	Route	Result
Maleic acid	oral	LD50 Rat: 1030 mg/kg ([Read-across substance data])
	dermal	LD50 Rabbit: 2620 mg/kg ([Read-across substance data])

Skin Corrosion/Irritation

Assessment:

Causes severe skin burns and eye damage.

Product Data: No data available.

Substance Data:

Name	Result
Maleic acid	Causes severe skin burns.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye damage.

Product Data: No data available.

Substance Data:

Name	Result
Maleic acid	Causes serious eye damage.

Respiratory or Skin Sensitization

Assessment:

May cause an allergic skin reaction.

Product Data: No data available.

Substance Data:

Name	Result
Maleic acid	May cause an allergic skin reaction.

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
Maleic acid	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Maleic 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.

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Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause respiratory irritation.

Product Data: No data available.

Substance Data:

Name	Result
Maleic acid	May cause respiratory irritation.

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:

No data available.

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

No data available.

Interactive effects:

No additional information.

Other Information:

No additional information.

SECTION 12: Ecological Information

Ecotoxicity

Acute (Short-Term) Toxicity

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

Product Data: No data available.

Substance Data:

Name	Result
Maleic acid	Fish LC50 <i>Oncorhynchus mykiss</i> : 75 mg/L (96 hr [Read-across substance data])
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 42.81 mg/L (48 hr [mobility])
	Aquatic Plants EC50 <i>Pseudokirchneriella subcapitata</i> : 74.35 mg/L (72hr [growth rate])

Chronic (Long-Term) Toxicity

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

Product Data: No data available.

Substance Data:

Name	Result
Maleic acid	Aquatic Invertebrates NOEC <i>Daphnia magna</i> : 10 mg/L (21 d [reproduction, Read-across substance])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Maleic acid	The substance is readily biodegradable. 97.08% degradation in water, measured by CO2 evolution, after 28 days.

Bioaccumulative Potential

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Product Data: No data available.

Substance Data:

Name	Result
Maleic acid	The substance is not expected to bioaccumulate (Log Pow: -1.3 at 20°C).

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Maleic acid	The substance is mobile, therefore, there is low potential for adsorption to soil and sediment (log Koc: 1.63).

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:

Maleic acid	The substance is not PBT.
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vPvB assessment:

Maleic acid	The substance is not vPvB.
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Other Adverse Effects: No additional information.

SECTION 13: Disposal Considerations

Disposal Methods:

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging:

Do not reuse empty containers.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	UN3261
UN Proper Shipping Name	Corrosive solid, acidic, organic, n.o.s.
UN Transport Hazard Class(es)	8
Packing Group	II
Reportable Quantity	(Maleic acid: RQ (kg)= 2270.00) Maleic acid: RQ (lb)= 5000.00
Special Provisions	IB8, IP2, IP4, T3, TP33
DOT Marine Pollutant	I
Marine pollutant	Maleic acid
Emergency Response Guide Number	154

International Maritime Dangerous Goods (IMDG)

UN Number	UN3261
UN Proper Shipping Name	Corrosive solid, acidic, organic, n.o.s.
UN Transport Hazard Class(es)	8
Packing Group	II
EmS-No	F-A, S-B
Special Provisions	274
Marine Pollutant	P

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

UN Number	UN3261
UN Proper Shipping Name	Corrosive solid, acidic, organic, n.o.s.
UN Transport Hazard Class(es)	8
Packing Group	II
Special Provisions	A3, A803
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:

110-16-7	Maleic acid	Listed	5000 lbs
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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:

110-16-7	Maleic acid	Listed
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New Jersey Right to Know:

110-16-7	Maleic acid	Listed
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New York Right to Know:

110-16-7	Maleic acid	Listed
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Pennsylvania Right to Know:

110-16-7	Maleic acid	Listed
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California Proposition 65: None of the ingredients are listed.

Additional information: No additional information.

SECTION 16: Other Information

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. ©2026 Surmodics, Inc. All rights reserved. SURMODICS, BIOFX and the SURMODICS logo are trademarks of Surmodics, Inc. and/or its affiliates.

NFPA: 3-0-0

HMIS: 3-0-0-X

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Additional information:

Document number: SPEC-2034

End of Safety Data Sheet