

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2026

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BioFX® 650 nm Stop Reagent for TMB Microwell Substrates (BSTP)**SECTION 1: Identification****Product Identifier****Product Name:** BioFX® 650 nm Stop Reagent for TMB Microwell Substrates (BSTP)**Product code:** BSTP**Additional information:** UN Number: UN1690**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

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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 3

Skin irritation, category 2

Eye irritation, category 2A

Label elements**Hazard Symbol(s):****Signal Word:** Danger**Hazard statement(s):**

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statement(s):

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash hands, forearms and face thoroughly after handling.

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

P270 Do not eat, drink or smoke when using this product.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention. P332+P313 If skin irritation occurs: Get medical advice/attention.

P302+P352 If on skin: Wash with plenty of water.

P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).

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P362+P364 Take off contaminated clothing and wash it before reuse.

P301+P310 If swallowed: Immediately call a poison center or doctor.

P330 Rinse mouth.

P405 Store locked up.

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: 7681-49-4	Sodium fluoride	100

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.

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 gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

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. If symptoms develop or persist, seek medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing

Skin contact may result in redness, pain, burning and inflammation

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Delayed Symptoms and Effects:

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

Symptoms of exposure may be delayed.

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

Immediate Medical Attention:

No additional information.

Special Treatment:

No additional information.

Notes for the Doctor: Treat symptomatically.

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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. Remove contaminated clothing with proper techniques in order to prevent contact with skin or eyes. Place contaminated clothing in a sealed container for future disposal.

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) Toxic if swallowed. Do not touch mouth or face with contaminated gloves or clothing. Do not ingest. Avoid breathing dust, mist, fumes, vapors or spray. 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). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store at room temperature. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. 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:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Sodium fluoride	7681-49-4	TWA: 2.5 mg/m ³ (F as Fluorides)
NIOSH	Sodium fluoride	7681-49-4	TWA: 2.5 mg/m ³ (F)
	Sodium fluoride	7681-49-4	IDLH: 250 mg/m ³ (F)
OSHA	Sodium fluoride	7681-49-4	TWA: 2.5 mg/m ³ (Fluorides)
United States(California)	Sodium fluoride	7681-49-4	PEL: 2.5 mg/m ³ (F as Fluorides)

Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Sodium fluoride	7681-49-4	Fluorides	U	EOS	3 mg/g
	Sodium fluoride	7681-49-4	Fluorides	U	Before shift	2 mg/g

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. 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.

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.

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SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical state	Solid
Color	White to very light yellow
Odor (includes odor threshold)	No data available.
Melting point/freezing point	No data available.
Initial boiling point/range	No data available.
Flammability	No data available.
Upper flammability/explosive limit	No data available.
Lower flammability/explosive limit	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubilities	No data available.
Partition coefficient (n-octanol/water)	No data available.
Vapor pressure (includes evaporation rate)	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

Other Information

Appearance	White to very light-yellow 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:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:

Strong acids. Strong bases. Strong oxidizing agents.

Hazardous Decomposition Products:

None known.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment:

Toxic if swallowed.

Product Data: No data available.

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Substance Data:

Name	Route	Result
Sodium fluoride	oral	LD50 Rat: 148.5 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data: No data available.

Substance Data:

Name	Result
Sodium fluoride	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye irritation.

Product Data: No data available.

Substance Data:

Name	Result
Sodium fluoride	Causes serious eye irritation.

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
Sodium fluoride	Group 3

National Toxicology Program (NTP):

Name	Classification
Sodium fluoride	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:

Kidney, Respiratory system, Eyes, Skin, Central nervous system, skeletal system.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

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

Product Data:

Kidney, Respiratory system, Eyes, Skin, Central nervous system, skeletal system.

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:

Harmful if inhaled, ingested, or if in contact with skin or eyes.

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
Sodium fluoride	Fish LC50 <i>Onchorynchus mykiss</i> : 51 mg/L (96 hr)
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 26 - 48 mg/L (96 hr)
	Aquatic Plants EC50 <i>Scenedesmus sp.</i> : 43 mg/L (96 hr [biomass])

Chronic (Long-Term) Toxicity

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

Product Data: No data available.

Substance Data:

Name	Result
Sodium fluoride	Fish NOEC <i>Oncoryhychus mykiss</i> : 4 mg/L (21 d [mortality])
	Aquatic Invertebrates NOEC <i>Daphnia magna</i> : 3.7 mg/L (21 d [reproduction])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Sodium fluoride	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Sodium fluoride	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

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Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Sodium fluoride	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.

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:

Sodium fluoride	PBT assessment does not apply to metals and their inorganic compounds such as this substance.
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vPvB assessment:

Sodium fluoride	vPvB assessment does not apply to metals and their inorganic compounds such as this substance.
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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	UN1690
UN Proper Shipping Name	Sodium fluoride, solid
UN Transport Hazard Class(es)	6.1 
Packing Group	III
Environmental Hazards	NP
Special Precautions for User	Emergency Response Guide Number: 154
Reportable Quantity	(Sodium fluoride: RQ (kg)= 454.00) Sodium fluoride: RQ (lb)= 1000.00
Stowage Category	IB8, IP3, T1, TP33

International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

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

UN Number	UN1690
UN Proper Shipping Name	Sodium fluoride, solid
UN Transport Hazard Class(es)	6.1 
Packing Group	III
Environmental Hazards	NP
Special Precautions for User	None
ERG Code	6L, F-A, S-A

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	Not Applicable
Ship Type	Not Applicable
Pollution Category	Not Applicable

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:

7681-49-4	Sodium fluoride	Listed
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SARA Section 313 Toxic Chemicals: None of the ingredients are listed.

CERCLA:

7681-49-4	Sodium fluoride	Listed	1000 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:

7681-49-4	Sodium fluoride	Listed
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New Jersey Right to Know:

7681-49-4	Sodium fluoride	Listed
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New York Right to Know:

7681-49-4	Sodium fluoride	Listed
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Pennsylvania Right to Know:

7681-49-4	Sodium fluoride	Listed
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California Proposition 65: None of the ingredients are listed.

Additional information: No additional information.

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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: 2-0-0

HMIS: 2*-0-0-X

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Additional information:

Chronic Hazard Star Legend * = Chronic Health Hazard

Document number: SPEC-4440

End of Safety Data Sheet