

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Preparation Date: 01.19.2026

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BioFX™ AP Stop Reagent (APSR)

SECTION 1: Identification

Product Identifier

Product Name: BioFX™ AP Stop Reagent (APSR)

Product code: APSR

Recommended Use of the Chemical and Restrictions on Use:

Recommended Uses: For laboratory use.

Restrictions on Use: Not determined or not applicable.

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 (dermal), category 4

Acute toxicity (inhalation), category 4

Acute toxicity (oral), category 4

Skin irritation, category 2

Eye irritation, category 2A

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

Label elements

Hazard Symbol(s):



Signal Word: Warning

Hazard statement(s):

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary Statement(s):

P261 Avoid breathing dust.

P271 Use only outdoors or in a well-ventilated area.

P264 Wash hands, forearms and face thoroughly after handling.

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P280 Wear eye protection, protective clothing, face shield, protective gloves.
P270 Do not eat, drink or smoke when using this product.
P312 If you feel unwell, contact a doctor or poison center.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
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.
P321 Specific treatment (see supplemental first aid instructions on this label).
P302+P352 If on skin: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P301+P312 If swallowed: If you feel unwell, contact a doctor or poison center.
P330 Rinse mouth.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to a licensed waste handling facility.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 6381-92-6	Edetate disodium	60 - 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:

Acute inhalation 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).

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Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing
Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

Acute dermal 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).

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).

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

Delayed Symptoms and Effects:

Symptoms of exposure may be delayed.

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

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

Immediate 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). 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.

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Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

Harmful if inhaled. Put on appropriate personal protective equipment, including a self-contained breathing apparatus (see Section 8) before entering area of spill or leak. 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).

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)

Harmful in contact with skin. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. 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).

Harmful if swallowed. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. 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).

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:

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

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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.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical state	Solid
Color	No data available.
Odor (includes odor threshold)	No data available.
Melting point/freezing point	248 °C (478 °F)
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	> 100 °C (> 212 °F) - DIN 51758
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	4 - 5.5 at 10 g/l at 23 °C (73 °F)
Kinematic viscosity	No data available.
Solubilities	Water: 100 g/l (20 °C)
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 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 confined spaces, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Light and moisture.

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Incompatible Materials:

Strong oxidizing agents. Strong acids. Some metals.

Hazardous Decomposition Products:

Hazardous fumes of nitrous oxides (NOx) and carbon oxides.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment:

Harmful if inhaled.

Harmful in contact with skin.

Harmful if swallowed.

Product Data: No data available.

Substance Data:

Name	Route	Result
Edetate disodium	Oral	LD50 Rat: 2800 mg/kg
	Inhalation ATE	LC50 Rat: 1.5 mg/L (4 hr [dust/mist])

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data: No data available.

Substance Data: No data available.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye irritation.

Product Data: No data available.

Substance Data:

Name	Result
Edetate disodium	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
Edetate disodium	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Edetate disodium	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.

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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:

May cause respiratory irritation.

Product Data: No data available.

Substance Data:

Name	Result
Edetate disodium	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:

Name	Result
Edetate disodium	May cause damage to respiratory tract through prolonged or repeated inhalation exposure.

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
Edetate disodium	Fish LC50 <i>Oncorhynchus mykiss</i> : >100 mg/L (96 hr [Read-across substance data])
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : >114 mg/L (48 hr [mobility, Read-across substance data])
	Aquatic Plants EC50 <i>Raphidocelis subcapitata</i> : >60 mg/L (72 hr [growth rate, Read-across substance data])

Chronic (Long-Term) Toxicity

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

Product Data: No data available.

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Substance Data:

Name	Result
Edetate disodium	Fish NOEC Danio rerio: ≥ 25.7 mg/L (35 d [survival, toxic signs (symptoms), abnormalities, time to hatch and swim up, Read-across substance data])
	Aquatic Invertebrates NOEC Daphnia magna: 25 mg/L (21 d [reproduction, Read-across substance data])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Edetate disodium	The substance is inherently biodegradable. 23% degradation in water, measured by O ₂ consumption, after 28 days (Read-across substance data).

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Edetate disodium	The substance is not expected to bioaccumulate (BCF: ca. 1.8 dimensionless, basis: whole body w.w., species: Lepomis macrochirus and log Pow: -4.3 at 25 °C, Read-across substance data).

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Edetate disodium	The substance is highly mobile, therefore, adsorption to soil and sediment is not expected (Koc: 3.35 L/kg at 22 °C, Read-across substance data).

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:

Edetate disodium	The substance is not PBT.
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vPvB assessment:

Edetate disodium	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.

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SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

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

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

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

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

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: 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: None of the ingredients are listed.

New York Right to Know: None of the ingredients are listed.

Pennsylvania Right to Know: None of the ingredients are listed.

California Proposition 65: None of the ingredients are listed.

Additional information: No additional information.

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SECTION 16: Other Information

Disclaimer:

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Additional information:

Document number: SPEC-7127

End of Safety Data Sheet