



# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product** FosPrep™ 96 Lysis Solution

**Chemical characterization** Proprietary Buffer

**Supplier** Edge BioSystems  
201 Perry Parkway, Suite 5  
Gaithersburg, MD 20877  
Tel: 1.301.990.2685  
1.800.326.2685  
Fax: 1.301.990.0881  
[www.edgebio.com](http://www.edgebio.com)

**Emergency telephone number** 1.800.326.2685

**Product use** Buffer

**Canadian PIN** N/A

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Name	CAS Number	Weight %
	Proprietary Buffer and Surfactant	Proprietary	10
Other components	Name	CAS Number	Weight %
	Components not identified are not hazardous, or are below regulatory disclosure limits.	N/A	N/A

See Section 15 of this MSDS for OSHA Regulatory Status

## 3. HAZARDS IDENTIFICATION

**Emergency overview** Clear, colorless liquid with no odor. Causes burns to eyes, skin and digestive tract. Breathing mists can irritate the respiratory tract.

Will not burn. In case of fire, use extinguishing media suitable for the material that is burning.

**Primary route(s) of entry** Respiratory tract, skin and eyes.

**Symptoms of exposure**

**Inhalation**

Breathing mists may cause irritation to respiratory tract.

**Eye contact**

Causes irritation or possible eye damage. Symptoms include pain, tearing, redness.

<b>Skin contact</b>	Causes irritation or possible burns. Symptoms include pain, redness, swelling.
<b>Ingestion</b>	May cause irritation to gastro-intestinal tract.
<b>Medical conditions aggravated by exposure</b>	None known.
<b>Listed as carcinogen or potential carcinogen</b>	Not listed by OSHA, the International Agency for Research on Cancer (IARC), or the National Toxicology Program (NTP).

#### 4. FIRST AID

<b>Inhalation</b>	Remove patient from area to fresh air. If not breathing, give artificial respiration or use a bag-mask respirator. Get immediate medical attention. If victim is having trouble breathing, transport to medical care and, if available, give supplemental oxygen.
<b>Eye contact</b>	Immediately rinse eyes slowly and gently with water for at least 15 minutes while holding eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Remove any contact lenses after the first 5 minutes and then continue flushing eyes. Get immediate medical attention. If physician is not available, flush for an additional 15 minutes.
<b>Skin contact</b>	Wash affected areas with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.
<b>Ingestion</b>	Give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Seek medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.
<b>Note to physician</b>	Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

<b>Flash Point and Method</b>	N/A
<b>General hazard</b>	Will not burn, but can decompose under fire conditions, liberating toxic gases.
<b>Extinguishing media</b>	Use media suitable for the material that is burning.
<b>Extinguishing media to avoid</b>	None.
<b>Special firefighting instructions</b>	Move containers from area if it can be done without risk.
<b>Firefighting equipment</b>	As in any fire, wear NIOSH approved, positive-pressure, self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Wear appropriate protective equipment (See Section 8). Avoid contact with eyes, skin and clothing.
<b>Environmental precautions</b>	Keep out of sewers or waterways.
<b>Clean-up methods</b>	Absorb spills in kitty litter, dry sand or earth and place into suitable containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear appropriate protective equipment (See Section 8). Avoid contact with eyes, skin and clothing. Use good laboratory practice. Wash thoroughly after handling.
<b>Storage</b>	Keep container tightly closed. Store at room temperature.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering controls</b>	General ventilation.
<b>Personal Protection</b>	
<b>Respirator</b>	In operations where mists are generated or established exposure limits exceeded, use a NIOSH approved respirator that has been selected by an industrial hygienist or other technically qualified person for the specific work conditions. If respirators are used, OSHA requires compliance with its respiratory protection program (29 CFR 1910.134).
<b>Eye Protection</b>	Wear safety glasses or vented safety goggles.
<b>Gloves</b>	Wear rubber gloves.
<b>Clothing</b>	Normal work clothing.
<b>Other</b>	Eye wash, emergency shower.
<b>Exposure controls</b>	N/E

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid
<b>Color</b>	None
<b>Odor</b>	None
<b>Properties</b>	pH: 8.0 ±0.1 Relative density (20° C): N/D Water solubility: Completely soluble

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable.
<b>Materials to avoid</b>	Strong acids, oxidizers, chlorates, nitrates, organic peroxides.
<b>Conditions to avoid</b>	None known.
<b>Hazardous decomposition products</b>	None for product sold. Under fire conditions when water has evaporated, the remaining compounds can decompose, forming ammonia, nitrogen oxides, carbon oxides, nitrogen and sulfur oxides, HCN, HCl.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	ORL-Rat LD50: 475 mg/kg. ORL-Mouse LD50: 571 mg/kg.
<b>Chronic Toxicity</b>	No information available.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No information available. It may be harmful to aquatic organisms, based upon component information.
<b>Persistence/degradability</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

<b>RCRA hazardous waste code</b>	Not regulated.
<b>Special instructions</b>	Observe all federal, state and local laws and regulations.

## 14. TRANSPORT INFORMATION

<b>DOT hazard class</b>	Not regulated.
<b>TDG hazard class</b>	Not regulated.

## 15. REGULATORY INFORMATION

<b>OSHA regulatory status (29 CFR 1910.1200)</b>	Non-hazardous
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<b>CERCLA reportable quantity (40 CFR 117, 302)</b>	<b>Name</b>	<b>Reportable quantity (lbs)</b>	
	Proprietary Buffer and Surfactant	N/A	
<b>SARA extremely hazardous substances (40 CFR 355)</b>	<b>Name</b>	<b>Threshold planning quantity (lbs)</b>	<b>Reportable quantity (lbs)</b>
	Proprietary Buffer and Surfactant	N/A	N/A
<b>SARA hazard categories (40 CFR 370)</b>	None		
<b>SARA toxic chemicals (40 CFR 372)</b>	<b>Name</b>	<b>CAS Number</b>	<b>Percentage</b>
	Proprietary Buffer and Surfactant	N/A	N/A
<b>Inventory Status</b>	The chemicals in this product are listed on the US TSCA Chemical Substances Inventory and the Canadian Domestic Substances List.		
<b>Toxic Substance Control Act</b>	No specific regulations apply.		
<b>Controlled Products Regulations</b>	This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.		
<b>WHMIS classification</b>	Does not meet the criteria for a controlled product.		

## 16. OTHER INFORMATION

<b>Abbreviations</b>	<p>C – Ceiling limit          ERG – Emergency Response Guidebook          LC<sub>50</sub> – The concentration of a substance in air that will kill 50% of test animals within a certain exposure period.          LD<sub>50</sub> – The dose that causes death in 50% of test animals.          N/A – Not applicable          N/D – Not determined          N/E – Not established          N/K – Not known          PIN – Product Identification Number          RQ – Reportable Quantity          STEL – Short Term Exposure Limit          TPQ – Threshold Planning Quantity          TWA – Time Weighted Average          WHMIS – Workplace Hazardous Materials Information System</p>
<b>Preparation information</b>	
<b>Date prepared</b>	January 19, 2006
<b>Replaces</b>	New
<b>MSDS Number</b>	4050216, 4050228

**Disclaimer**

The above information is believed correct, but does not purport to be all inclusive and shall only be used as a guide. Edge BioSystems shall not be held liable for any damage resulting from handling or from contact with the above product.