



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product FosPrep™ 384 Lysis Solution

Chemical characterization Proprietary Buffer

Supplier Edge BioSystems
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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.

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

4. FIRST AID

Inhalation	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.
Eye contact	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.
Skin contact	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.
Ingestion	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.
Note to physician	Treat symptomatically.

5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	General ventilation.
Personal Protection	
Respirator	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).
Eye Protection	Wear safety glasses or vented safety goggles.
Gloves	Wear rubber gloves.
Clothing	Normal work clothing.
Other	Eye wash, emergency shower.
Exposure controls	N/E

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Reactivity	Stable.
Materials to avoid	Strong acids, oxidizers, chlorates, nitrates, organic peroxides.
Conditions to avoid	None known.
Hazardous decomposition products	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

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

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT hazard class	Not regulated.
TDG hazard class	Not regulated.

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Abbreviations	<p>C – Ceiling limit ERG – Emergency Response Guidebook LC₅₀ – The concentration of a substance in air that will kill 50% of test animals within a certain exposure period. LD₅₀ – 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>
Preparation information	
Date prepared	May 4, 2006
Replaces	New
MSDS Number	4050227, 4050231

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.