

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Lysis Buffer 1

Chemical characterization Dilute surfactant solution

Supplier Edge BioSystems
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Product use Lysis buffer

Canadian PIN N/A

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Name	CAS Number	Weight %
	Sodium dodecyl sulfate	151-21-3	3 - 7

Other components	Name	CAS Number	Weight %
	Water	7732-18-5	93 - 97

See Section 15 of this MSDS for OSHA Regulatory Status

3. HAZARDS IDENTIFICATION

Emergency overview Clear, colorless liquid with no odor. Causes eye and skin irritation.

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

Primary route(s) of entry Skin and eyes.

Symptoms of exposure

Inhalation Breathing vapors may cause irritation to respiratory tract. Symptoms include cough, dry throat, difficulty in breathing, nasal congestion and headaches.

Eye contact Causes eye irritation, felt as a burning sensation, tearing, redness.

Skin contact	Causes skin irritation, experienced as swelling, itching, redness.
Ingestion	May cause irritation to gastro-intestinal tract, nausea and diarrhea.
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 from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult
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.
Skin contact	Wash affected areas with plenty of water, and soap if available, for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation develops and persists.
Ingestion	Give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get 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	Does not present any special hazards.
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).
Environmental precautions	Keep out of sewers and waterways.

Clean-up methods Absorb spills with sand, kitty litter, sawdust or other absorbent. Place in a compatible container for disposal.

7. HANDLING AND STORAGE

Handling Wear appropriate protective equipment (see Section 8). Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

Storage Keep container closed. Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls General ventilation.

Personal Protection

Respirator In operations where mists are generated, 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/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid

Color None

Odor None

Properties pH: 7.0
Relative density (20°C): N/D
Water solubility: Completely miscible.

10. STABILITY AND REACTIVITY

Reactivity Stable

Materials to avoid None known

Conditions to avoid None known

Hazardous decomposition products Oxides of sulfur and carbon.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity No information of product is available.

Chronic Toxicity No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity No information of product is available.

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) Hazardous

CERCLA reportable quantity (40 CFR 117, 302)	Name	Reportable quantity (lbs)	
	None	N/A	

SARA extremely hazardous substances (40 CFR 355)	Name	Threshold planning quantity (lbs)	Reportable quantity (lbs)
	None	N/A	N/A

SARA hazard categories (40 CFR 370) Immediate (Acute)

SARA toxic chemicals (40 CFR 372)	Name	CAS Number	Percentage
	None	N/A	N/A

Inventory Status This chemical is 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	D2B
State regulations	N/A

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	July 24, 2002
Replaces	New
MSDS Number	4050031, 4050128
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.