



# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product** Lysis Buffer 1

**Chemical characterization** Dilute surfactant solution

**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** 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**

<b>Inhalation</b>	Breathing vapors may cause irritation to respiratory tract. Symptoms include cough, dry throat, difficulty in breathing, nasal congestion and headaches.
<b>Eye contact</b>	Causes eye irritation, felt as a burning sensation, tearing, redness.
<b>Skin contact</b>	Causes skin irritation, experienced as swelling, itching, redness.
<b>Ingestion</b>	May cause irritation to gastro-intestinal tract, nausea and diarrhea.
<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 from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult
<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.
<b>Skin contact</b>	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.
<b>Ingestion</b>	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.
<b>Note to physician</b>	Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

<b>Flash Point and Method</b>	N/A
<b>General hazard</b>	Does not present any special hazards.
<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).
<b>Environmental precautions</b>	Keep out of sewers and waterways.
<b>Clean-up methods</b>	Absorb spills with sand, kitty litter, sawdust or other absorbent. Place in a compatible container for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear appropriate protective equipment (see Section 8). Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.
<b>Storage</b>	Keep container closed. Store in a cool, dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering controls</b>	General ventilation.
<b>Personal Protection</b>	
<b>Respirator</b>	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).
<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/A

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid
<b>Color</b>	None
<b>Odor</b>	None
<b>Properties</b>	pH: 7.0 Relative density (20°C): N/D Water solubility: Completely miscible.

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable
<b>Materials to avoid</b>	None known
<b>Conditions to avoid</b>	None known
<b>Hazardous decomposition products</b>	Oxides of sulfur and carbon.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	No information of product is available.
<b>Chronic Toxicity</b>	No information available.

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	No information of product is available.
<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>	Hazardous		
<b>CERCLA reportable quantity (40 CFR 117, 302)</b>	<b>Name</b>	<b>Reportable quantity (lbs)</b>	
	None	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>
	None	N/A	N/A
<b>SARA hazard categories (40 CFR 370)</b>	Immediate (Acute)		
<b>SARA toxic chemicals</b>	<b>Name</b>	<b>CAS Number</b>	<b>Percentage</b>

<b>(40 CFR 372)</b>	None	N/A	N/A
<b>Inventory Status</b>	This chemical is 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>	D2B		
<b>State regulations</b>	N/A		

## 16. OTHER INFORMATION

### Abbreviations

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

### 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.