

**SAFETY DATA SHEET**  
**Revision Date 08/06/2019**

**1. PRODUCT AND COMPANY INFORMATION**

- Product name DNA Lysis Buffer
- Company Name Gene By Gene, Genomic Research Center
- Company Address 1445 N Loop W, Suite 820, Houston, TX 77008
- Company Telephone Number (713) 868-1438
- Company Fax (713) 230-8999

**2. HAZARDS IDENTIFICATION**

<u>Hazardous Component</u>	<u>CAS #</u>	<u>Percentage</u>
SDS sodium dodecyl sulfate	151-21-3	1%

Target Organs: Respiratory system, Skin, Eyes

Potential Health Effects

Acute Effects

Principle Routes of Exposure

Eyes: Irritating to eyes.

Skin: Irritating to skin. Harmful in contact with skin.

Inhalation: Irritating to respiratory system. May be harmful if inhaled. May cause allergic respiratory reaction.

Ingestion: Harmful if swallowed. Causes gastrointestinal tract irritation.

Chronic Effects: Repeated contact may cause allergic reactions in very susceptible persons.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

- Mixture of the substance below with nonhazardous additions

<u>Hazardous Component</u>	<u>CAS #</u>	<u>Percentage</u>
SDS sodium dodecyl sulfate	151-21-3	1%

**4. FIRST AID MEASURES**

- Ingestion Seek medical advice if large amounts have been ingested.
- Skin contact Rinse immediately with copious amounts of water. Remove and wash contaminated clothing before re-use. Seek medical advice for skin irritation.
- Eye contact Rinse immediately with copious amounts of water and seek medical advice if irritation persists.
- Spills Wear personal protective equipment. Contain the release and eliminate the source. Take up and containerize for proper disposal in accordance with appropriate Federal, State and local regulations.

**5. FIRE-FIGHTING MEASURES**

- Autoignition Temperature Non-combustible
- Flammable Range N/A
- Flash Point (indicate method used) N/A
- Lowest Explosive Limit (LEV) N/A
- Upper Explosive Limit (UEL) N/A
- Extinguishing Media N/A
- Special Fire Fighting Procedures N/A
- Unusual Fire and Explosion Hazards N/A

**6. ACCIDENTAL RELEASE MEASURES**

- General Information Use proper personal protective equipment as indicated in Section 8
- Environmental precautions Dilute with plenty of water
- Methods and material for containment and cleaning up Absorb with inert absorbent material

**7. HANDLING AND STORAGE**

- Work Practices Wear personal protective equipment. Avoid ingestion and contact with skin and eyes.
- Storage No special precautions required

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Appropriate Engineering Controls Non required
- Personal Protective Equipment Appropriate gloves to prevent skin contact and appropriate eye protection to prevent eye contact

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Boiling Point Not determined
- Freezing Point Not determined
- Vapor Pressure (mm Hg.) Not determined
- Vapor Density (air = 1) Not determined
- Specific Gravity (H<sub>2</sub>O = 1) Not determined
- Melting Point N/A
- Evaporation Rate (Butyl Acetate = 1) Not determined
- Solubility in Water Soluble
- Appearance and Odor Clear liquid, no odor

## 10. STABILITY AND REACTIVITY

- Stability - conditions to avoid Stable
- Incompatibilities - materials to avoid N/A
- Hazardous Decomposition or Byproducts Oxides of carbon nitrogen and sulfur
- Hazardous Polymerization - conditions to avoid Does not occur

<b>SUMMARY - Physical Hazards</b>	<b>Hazard Yes/No</b>	<b>Reference</b>
Combustible liquid	No	
Flammable aerosol	No	
Flammable gas	No	
Flammable liquid	No	
Flammable solid	No	
Oxidizer	No	
Pyrophoric material	No	
Compressed gas	No	
Explosive	No	
Organic peroxides	No	
Unstable material	No	
Water-reactive material	No	

## 11. TOXICOLOGICAL INFORMATION

<b>SUMMARY - Health Hazards</b>	<b>Hazard Yes/No</b>	<b>Reference</b>
<b>Systemic Effects</b>		
Carcinogen	No (None of the components of this mixture are listed as cancer causing agents)	IARC, NTP, OSHA
Highly toxic	No	
Toxic	No	
Irritant	Yes (Irritating to the eyes and mucous membranes, possibly irritating to the skin)	HSDB, CHRIS
Corrosive	No	
Sensitizer	Possible (Can produce allergic sensitivity reactions)	HSDB, CHRIS

<b>Target Organ Effects</b>		
Hepatotoxin	No	
Nephrotoxin	No	
Neurotoxins	No	
Blood/hematopoietic toxin	No	
Respiratory toxin	No	
Reproductive toxin	No	
Cutaneous hazard	Possible (Can produce allergic sensitivity reactions)	HSDB, CHRIS
Eye hazard	Yes (Irritant)	HSDB, CHRIS
Cardiovascular toxin	No	
Immune toxin	No	
Other type of toxicity	No	

- **Routes of Entry** Ingestion, skin and/or eye contact
- **Signs and Symptoms of Exposure**  
Ingestion – May cause gastrointestinal irritation – diarrhea, nausea, vomiting and/or intestinal bloating are possible  
Skin Contact – Allergies possible with eczematous dermatitis  
Eye Contact – Irritation
- **Medical Conditions Which are Aggravated by Exposure** Persons with pre-existing skin or eye disorders maybe susceptible to the effects of this mixture.
- **Exposure Limits** No OSHA, ACGIH, or NIOSH exposure limits have been established for any components of the mixture.

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

- **Waste treatment methods recommendation**  
Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

- **DOT Classification** Not regulated
- **TDG Classification** Not regulated
- **Mexico Classification** Not regulated
- **ADR/RID** Not regulated
- **IMDG** Not regulated
- **IATA** Not regulated

## 15. REGULATORY INFORMATION

### US FEDERAL

- **TSCA** CAS# 151-21-3 is listed on the TSCA inventory.
- **Health & Safety Reporting List** None of the chemicals are on the Health & Safety Reporting List.
- **Chemical Test Rules** None of the chemicals in this product are under a Chemical Test Rule.
- **Section 12b** None of the chemicals are listed under TSCA Section 12b.
- **TSCA Significant New Use Rule** None of the chemicals in this material have a SNUR under TSCA.
- **CERCLA Hazardous Substances and corresponding RQs** None of the chemicals in this material have an RQ.
- **SARA Section 302 Extremely Hazardous Substances** None of the chemicals in this product have a TPQ.
- **SARA Codes** CAS # 151-21-3: acute.
- **Section 313** No chemicals are reportable under Section 313.
- **Clean Air Act** This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.
- **Clean Water Act** None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
- **OSHA** None of the chemicals in this product are considered highly hazardous by OSHA.
- **STATE** CAS# 151-21-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
- **California No Significant Risk Level** None of the chemicals in this product are listed.

## **16. OTHER INFORMATION**

This Material Safety Data Sheet has been prepared according to the criteria specified in the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200). The Genomic Research Center provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

### **LABEL REQUIREMENTS (In at least English)**

- **Product/Mixture Name (If Applicable)** DNA Lysis Buffer
- **Appropriate Hazard Warning** Irritant
- **Company Name** Gene By Gene, Genomic Research Center
- **Company Address** 1445 N Loop W, Suite 820, Houston, TX 77008