Material Safety Data Sheet

Section 1: PRODUCT AND COMPANY IDENTIFICATION

bioMérieux, Inc.
100 Rodolphe Street
Durham, North Carolina 27712
Telephone: 1-800-654-0331 Fax: 919-620-2134

EMERGENCY CONTACT
1-800-682-2666
Or Contact Your Local
Poison Control Center

Product Number: 284046, 284047, 284135, 200292, 285019, 285020, 200292, 280134
Product Name: NucliSens Lysis Buffer; NucliSens Lysis Buffer, Low pH; NucliSens easyMAG Lysis Buffer
Product Description: NucliSens Lysis Buffers are used for nucleic acid release in human samples.

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component	Percentage	Exposure Limits
593-84-0	Guanidine Thiocyanate	>50%	None Established
9002-93-1	Triton X-100	>1%	None Established

PEL=OSHA Permissible Exposure Limit. TLV= ACGIH Threshold Limit Value. TWA=time weighted average.

Section 3: HAZARDS IDENTIFICATION

U.S. PRECAUTIONARY LABELING

WARNING

May cause eye and skin irritation. Harmful if swallowed or absorbed through the skin. May cause lung, liver and kidney damage. Do not get in eyes, on skin or clothing. Keep containers closed. Wash thoroughly after handling.

INTERNATIONAL LABELING

Harmful in contact with the skin and if swallowed. Contact with acids liberates very toxic gas. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

EU Classification: Harmful
R and S Phrases: R21/22, R32, S26, S36/37

HEALTH HAZARDS:

Inhalation: Inhalation of mists may cause respiratory irritation and possible systemic effects similar to ingestion.

Skin Contact: Contact may cause irritation and possibly allergic skin reaction (sensitization). Contains guanidine thiocyanate, which may be absorbed through the skin with symptoms similar to ingestion. Nucleic acid release materials may contain infectious materials.

Eye Contact: Contact may cause irritation.

Ingestion: May cause gastrointestinal irritation and other adverse effects. Guanidine thiocyanate may be toxic by ingestion and cause nervous system effects such as disorientation, weakness, confusion, spasms, behavioral changes and collapse along with lung, liver and kidney damage. Nucleic acid release materials may contain infectious materials.

Chronic Health Hazards: Chronic exposure to guanidine thiocyanate may cause lung, liver and kidney damage.

Carcinogen Status: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Medical Conditions Aggravated by Exposure: Pre-existing skin, lung, liver and kidney conditions. May cause allergic reaction in sensitive individuals.

Section 4: FIRST AID MEASURES

Inhalation: Immediately remove the victim to fresh air. If breathing has stopped administer artificial respiration. Get immediate medical attention.

Skin Contact: Immediately remove contaminated clothing. Wash the contact area thoroughly with soap and water for 15 minutes. Get medical attention if irritation or symptoms develop. Nucleic acid release materials may contain infectious materials. If skin is broken, or material enters an open wound, seek medical attention.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open to assure that the entire surface is flushed. Get immediate medical attention.

Ingestion: Immediately call poison control and follow their instructions. If conscious and alert, rinse mouth with water, then give a glass of water to drink. Never give anything by mouth to an unconscious or convulsing person. Do NOT induce vomiting. Get immediate medical attention.

Section 5: FIRE FIGHTING MEASURES

Flash Point (Method Used): None
Autoignition Temp: None
Flammable Limits: **LEL:** N/A **UEL:** N/A
Extinguishing Media: Use any media appropriate for the surrounding fire.
Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus and full protective clothing.
Unusual Fire and Explosion Hazards: None.
Hazardous Combustion Products: Oxides of nitrogen and sulfur.

Section 6: ACCIDENTAL RELEASE MEASURES

Wear protective equipment (gloves and safety glasses). Isolate spill area. Collect with absorbent material and place in a container for disposal. Wash spill area with a detergent solution then disinfect the surface with a 1% (w/v) sodium hypochlorite (bleach) solution or an equivalent disinfectant. DO NOT add bleach to spilled material-dangerous reaction may occur.

Section 7: HANDLING AND STORAGE

Follow good laboratory practices of avoiding contact (breathing, touching, smoking ...) with a laboratory reagent. Avoid contact with the skin and eyes. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke in the use area.
Use disposable gloves and handle specimens and materials that contact specimens as if potentially infectious in accordance with "Universal Precautions for Prevention of Transmission of Human Immunodeficiency Virus, Hepatitis B Virus, and Bloodborne Pathogens in Health-Care Setting" (CDC, MMMWR, June 24, 1988).

Store in a tightly closed container. Store at 2-8 degrees C away from incompatible materials.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: General laboratory ventilation should be adequate.
Respiratory Protection: None should be needed.
Gloves: Impervious gloves should be worn.
Eye Protection: Standard laboratory safety goggles.
Other Protective Equipment/Clothing:

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear, colorless, odorless, aqueous solution.

pH: 7.1 or 6.2 (low pH)
Vapor Pressure: N/A
Vapor Density: N/A
Evaporation Rate: N/D
Water Solubility: Complete
Boiling Point (F): N/D
Melting Point (F): N/D
Percent Volatile: N/D
Specific Gravity: 1.12
Coefficient of Oil/Water: N/D

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Avoid excessive heat and light.

Incompatibility: Strong acids, bases, and oxidizers (including bleach).

Hazardous Decomposition Products: Reaction with acids liberates very toxic gas (hydrogen cyanide). Reaction with bleach liberates toxic cyanogen chloride gas. Thermal decomposition liberates oxides of nitrogen and sulfur.

Hazardous Polymerization: Will not occur.

Section 11: TOXICOLOGICAL INFORMATION

Guanidine thiocyanate: Intraperitoneal mouse LD50: 300 mg/kg.
Triton X-100: Oral rat LD50: 1800 mg/kg.

Section 12: ECOLOGICAL INFORMATION

The ecological effects of this material have not been determined.

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of product in accordance with all local, state/provincial and federal regulations. Do not mix waste with other laboratory waste to prevent harmful chemical reactions.

Container Disposal: Empty containers should be collected for proper disposal.

Section 14: TRANSPORT INFORMATION

U.S. DOT HAZARD CLASSIFICATION

Proper Shipping Name: Not regulated
Technical Name:
UN Number: N/A
Hazard Class/Packing Group: N/A
Labels Required: None
DOT Packaging Requirements: N/A
Exceptions: N/A

IATA/ICAO AIR TRANSPORTATION

Proper Shipping Name: Not regulated

Technical Name:
UN Number: N/A
Hazard Class/Packing Group: N/A
Labels Required: None
IATA Packaging Requirements: N/A
Comment:

Section 15: REGULATORY INFORMATION

SARA 311/312: Hazard Categories for SARA 311/312 Reporting: Acute health, chronic health

SARA 313: This Product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Section 313 (40 CFR372):

None

CERCLA Section 103 Reportable Quantity: None
California Proposition 65:
This product contains the following substances known to the State of California to cause cancer and/or reproductive harm:
None known
Canadian WHMIS Classification: Class D-2-B

Section 16: OTHER INFORMATION

NFPA Hazard Rating: Health: 2 Fire: 0 Reactivity: 0
Revision Summary: Section 13: Change in disposal recommendation.

PREVIOUS REVISION DATE: 4/14/2004 CURRENT REVISION DATE: 4/6/2006

The above information is believed to be correct as of the date of this sheet but does not purport to be all inclusive and shall be used only as a guide. Since the use of this information and the conditions of use of the product are not within the control of bioMérieux S.A. nor bioMérieux, Inc., it is the users obligation to assure safe use of this product.