

## Safety Data Sheet

<b>Doc ID:</b> SDS-0027	<b>Effective Date:</b> December 03, 2015	<b>Revision:</b> B
<b>Trade name</b>	10X Citrate Buffer for Heat Induced Epitope Recovery (pH 6, 7, 8)	

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

<b>Trade name</b>	10X Citrate Buffer for Heat Induced Epitope Recovery (pH 6, 7, 8)
<b>Cat ##</b>	K035, K035-500AN, K036, K037
<b>Components</b>	Sodium Azide
<b>EC</b>	247-852-1
<b>CAS</b>	26628-22-8

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Liquid in plastic bottle
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#### 1.3 Details of the supplier of the safety data sheet

Diagnostic BioSystems, Inc. 6616 Owens Drive Pleasanton, CA 94588 (925) 484-3350 Customersupport@dbiosys.com
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#### 1.4 Emergency telephone number


N/A
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### SECTION 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

COMPONENT 1			
	Hazard Class	Category	Hazard Statements (for pure substances)
Sodium Azide	N/A	N/A	This product has been classified as non-hazardous based on the physical and/or chemical nature and/or concentration of ingredients.

#### 2.2 Label elements

<b>Signal Word</b>	Warning
<b>Pictogram</b>	
<b>H-Statements</b>	N/A
<b>P-Statements</b>	N/A
<b>EUH-Statements</b>	N/A

#### 2.3 Other hazards

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N/A

### SECTION 3: Composition/information on ingredients

Name	Identifiers	Classification according to CLP	Classification (for pure substances)
Sodium Azide	EC: 247-852-1 CAS: 26628-22-8	Concentration: <0.5%	R28: Very toxic if swallowed, R38: Irritating to skin, R50 Very toxic to aquatic organisms R53: May cause long-term adverse effects in the aquatic environment

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>If inhaled</b>	Move to well-ventilated area and seek medical attention if needed. If individual is not breathing, begin artificial respiration immediately and obtain medical attention
<b>If on skin</b>	Wash exposed area with soap and water and get medical advice if irritation develops.
<b>If in eyes</b>	Immediately wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occurs, obtain medical attention.
<b>If swallowed</b>	Rinse mouth with water. Immediately seek medical attention and call poison control center.
<b>Self-protection of the first aider</b>	N/A

#### 4.2 Most important symptoms and effects, both acute and delayed

N/A

#### 4.3 Indication of any immediate medical attention and special treatment needed

N/A

### SECTION 5: Firefighting measures

#### 5.1 Flammable Properties

<b>Flash point</b>	N/A
<b>Flash point method</b>	N/A

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<b>Autoignition temperature</b>	N/A
<b>Upper flame limit (volume % in air)</b>	N/A
<b>Lower flame limit (volume % in air)</b>	N/A
<b>Flame propagation rate (solids)</b>	N/A
<b>Osha flammability class</b>	N/A

### ***5.2 Extinguishing media***

<b>Suitable extinguishing media</b>	Water, dry chemical, carbon dioxide or appropriate foam
<b>Unsuitable extinguishing media</b>	N/A

### ***5.3 Special hazards arising from the substance or mixture***

<b>Hazardous combustion products</b>	N/A
<b>Other information</b>	Avoid inhalation of toxic fumes.

### ***5.4 Advice for firefighters***

Wear protective clothing containing self-contained breathing apparatus.
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## **SECTION 6: Accidental release measures**

### ***6.1 Personal precautions, protective equipment and emergency procedures***

<b>Protective equipment</b>	Ensure adequate ventilation Eye Protection: Wear goggles or safety glasses Hand protection: Wear latex or vinyl gloves Other protective equipment: Use lab coat or apron to prevent contact with eyes, skin and clothing
<b>Emergency procedures</b>	N/A
<b>For emergency responders</b>	N/A

### ***6.2 Environmental precautions***

Do not allow to enter sewage system
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### ***6.3 Methods and material for containment and cleaning up***

<b>For containment</b>	N/A
<b>For cleaning up</b>	Use universal precautions during clean up procedures. As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Use liquid absorbent material to absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.
<b>Other information</b>	N/A

### ***6.4 Reference to other sections***

N/A
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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

<b>Measures to prevent fire</b>	N/A
<b>Measures to prevent aerosol and dust generation</b>	N/A
<b>Measures to protect the environment</b>	N/A
<b>Advice on general occupational hygiene</b>	Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with skin and eyes. Do not ingest. Do not eat, drink when handling this product, and wash hands after handling.

#### 7.2 Conditions for safe storage, including any incompatibilities

<b>Technical measures and storage conditions</b>	Store at 2°C to 8°C
<b>Packaging materials</b>	N/A
<b>Requirements for storage rooms and vessels</b>	N/A
<b>Storage class</b>	N/A
<b>Other information</b>	N/A

#### 7.3 Specific end use(s)

<b>Recommendations</b>	N/A
<b>Industrial sector specific solutions</b>	N/A

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### 8.2 Exposure controls

<b>Respiratory Protection</b>	Use in well-ventilated laboratory
<b>Skin and body protection</b>	Wear appropriate protective gloves and clothing to prevent skin exposure
<b>Eye/face Protection</b>	Wear appropriate protective eyeglasses or chemical safety goggles
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Clear, Liquid
<b>Odor</b>	Odorless
<b>Order Threshold</b>	N/A
<b>pH</b>	6, 7, 8
<b>Melting Point/ Freezing Point</b>	N/A
<b>Initial Boiling Point/ Freezing Point</b>	N/A
<b>Flash Point</b>	N/A
<b>Evaporation Rate</b>	N/A
<b>Flammability</b>	N/A
<b>Upper/Lower Flammability or Explosive Limits</b>	N/A
<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A
<b>Relative Density</b>	N/A
<b>Solubility</b>	N/A
<b>Partition Coefficient: n-octanol/water</b>	N/A
<b>Auto-Ignition Temperature</b>	N/A
<b>Decomposition temperature</b>	N/A
<b>Viscosity</b>	N/A
<b>Explosive Properties</b>	N/A
<b>Oxidizing Properties</b>	N/A

#### 9.2 Other Information

N/A

### Section 10: Stability and Reactivity

#### 10.1 Reactivity

N/A

#### 10.2 Chemical Stability

Stable under recommended storage conditions

#### 10.3 Possibility of Hazardous Reactions

N/A

#### 10.4 Conditions to Avoid

Strong prolonged heat and contact with incompatible materials

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### 10.5 Incompatible Materials

Strong Acids

Strong Bases

Strong Oxidizers

Metals and Metallic compounds

Sodium Azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains result in the buildup of shock sensitive compounds.

### 10.6 Hazardous Decomposition Products

N/A

## SECTION 11: Toxicological Information

<b>Sodium Azide (in pure form):</b> mouse LD50 oral 27mg/kg (27mg/kg)	
<b>Common route of entry</b>	Ingestion
<b>Potential Effects of Acute Exposure</b>	Its concentration is low (<0.1%) in this product, but it is highly toxic when ingested in pure form. Overexposure may cause irritation of skin, eyes and mucous membranes, lowered blood pressure and irregular heartbeat. Sodium azide is a chemical asphyxiant and may affect the cardiovascular, respiratory and central nervous systems. Symptoms may include irritation, severe, pounding headaches, dizziness, weakness, nausea, vomiting, low blood pressure, rapid heartbeat, convulsions, collapse and death.
<b>Potential Effects of Chronic Exposure</b>	Prolonged or repeated exposure may result in pounding headaches, eye and nose irritation, low blood pressure, fatigue and dizziness.
<b>Symptoms of Overexposure</b>	Eye, skin, nose and throat irritation; headache, weakness, dizziness, confusion, nausea and vomiting. This may also lead to difficulty in breathing, irregular heartbeat, reddish colored skin, unconsciousness, convulsions, coma and death. Symptoms may be delayed for several hours after exposure.

## SECTION 12: Ecological Information

### 12.1 Toxicity

Preservatives normally are toxic for aquatic organisms when using pure substances. No ecological problems are to be expected when this product is handled and used with care and attention.

### 12.2 Persistence and Degradability

N/A

### 12.3 Bioaccumulative potential

N/A

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### **12.4 Mobility in Soil**

N/A

### **12.5 Results of PBT and vPvB Assessment**

N/A

### **12.6 Other Adverse Effects**

N/A

## **SECTION 13: Disposal Considerations**

### **13.1 Waste Treatment Methods**

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

## **SECTION 14: Transport Information**

### **14.1 Un Number**

N/A

### **14.2 Un Proper Shipping Name**

N/A

### **14.3 Transport Hazard Class (es)**

N/A

### **14.4 Packing Group**

N/A

### **14.5 Environmental Hazards**

N/A

### **14.6 Special Precautions for User**

N/A

### **14.7 Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code**

N/A

## **SECTION 15: Regulatory Information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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The product does not contain a hazardous ingredient in an amount that requires identification and labeling according to EC directives.

### ***15.2 Chemical Safety Assessment***

N/A

### **SECTION 16: Other Information**

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information of their particular purposes.