

Jule, Inc.  
MATERIAL SAFETY DATA SHEET

Date updated: 12/05/11

**Section 1 - Product and Company Information**

Product Name: TRIS – GLYCINE – SDS RUNNING BUFFER  
10X CONCENTRATE ELECTROPHORESIS REAGENT

Product Number: TGSRB10X

Company Address: JULE, INC  
185 RESEARCH DRIVE SUITE #6  
MILFORD, CT 06460 US

Technical Phone: 800-648-1772  
Fax: 203-878-7448  
Emergency Phone: 800-222-1222 (Poison Control)

**Section 2 – Composition/Information on Ingredient**

<b>Substance Name</b>	<b>Cas #</b>		<b>Sara 313</b>
TRIS GLYCINE BUFFER CONCENTRATE	None		No
<b>Ingredient Name</b>	<b>Cas #</b>	<b>Percent</b>	<b>Sara 313</b>
WATER	7732-18-5	> = 82	No
GLYCINE	56-40-6	> = 14.4 < = 14.5	No
TRIS (HYDROXYMETHYL) AMINOMETHANE FREE BASE	77-86-1	> = 3 < = 3.1	No
SODIUM DODECYL SULFATE	151-21-3	0.1	No

### **Section 3 – Hazards Identification**

#### EMERGENCY OVERVIEW

Irritant

Irritating to eyes, respiratory system and skin

#### HMIS RATING

HEALTH: 2

FLAMMABILITY : 0

REACTIVITY: 0

#### NFPA RATING

HEALTH: 2

FLAMMABILITY : 0

REACTIVITY: 0

For additional information on toxicity, please refer to section 11.

### **Section 4 – First Aid Measures**

#### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious, Call a physician.

#### INHALATION EXPOSURE

If inhaled remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

#### EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

## **Section 5 – Fire Fighting Measures**

### AUTOIGNITION TEMP

N/A

### FLAMMABILITY

N/A

### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical, dry chemical powder, or appropriate foam.

### FIREFIGHTING

Protective Equipment: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard (s): Emits toxic fumes under fire conditions.

## **Section 6 – Accidental Release Measures**

### PROCEDURE (S) OF PERSONAL PRECAUTION (S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## **Section 7 – Handling and Storage**

### HANDLING

User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing.

Avoid prolonged or repeated exposure.

### STORAGE

Suitable: Keep tightly closed.

Store at 2 – 8 degrees Celsius

## **Section 8 – Exposure Controls / PPE**

### **ENGINEERING CONTROLS**

Mechanical exhaust required. Safety shower and eye bath.

### **PERSONAL PROTECTIVE EQUIPMENT**

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air – purifying respirators are appropriate use a full – face respirator with multi – purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full – face supplied air respirator.

Hand: Compatible chemical – resistant gloves.

Eye: Chemical safety goggles.

### **GENERAL HYGIENE MEASURES**

Wash thoroughly after handling.

## **Section 9 – Physical/Chemical Properties**

Appearance                      Physical State: Liquid

Property                      Value                      At Temperature or Pressure

pH                      N/A

BP/BP Range                      N/A

MP/MP Range                      N/A

Freezing Point                      N/A

Vapor Pressure                      N/A

Vapor Density                      N/A

Saturated Vapor Conc.                      N/A

S/G Density                      N/A

Bulk Density                      N/A

Odor Threshold                      N/A

Volatile %                      N/A

VOC Content                      N/A

Water Content                      N/A

Solvent Content                      N/A

Evaporation Rate                      N/A

Viscosity                      N/A

Surface Tension                      N/A

Partition Coefficient                      N/A

Decomposition Temp.                      N/A

Explosion Limits                      N/A

Refractive Index                      N/A

Optical Rotation                      N/A

Miscellaneous Data                      N/A

Solubility                      N/A

N/A = not available

## **Section 10 – Stability and Reactivity**

### STABILITY

Stable: Stable.

Materials to avoid: Strong oxidizing agents, bases.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur.

## **Section 11 - Toxicological Information**

### ROUTE OF EXPOSURE

Skin contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.

## **Section 12 – Ecological Information**

No data available

## **Section 13 – Disposal Considerations**

### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPERATION

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner scrubber. Observe all federal, state, and local environmental regulations.

## **Section 14 – Transport Information**

DOT-

Proper Shipping Name: None

Non Hazardous for transport: This substance is considered to be non hazardous for transport.

IATA-

Non Hazardous for air transport

## **Section 15 – Regulatory Information**

US CLASSIFICATION AND LABEL TEXT

Indication of danger: Irritant

Risk Statements: Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

## **Section 16 – Other Information**

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

This information is based on our or present knowledge. However this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.