

# MATERIAL SAFETY DATA SHEET (MSDS)

## For GeBAflex-tube kits

### 1. PRODUCTS AND COMPANY IDENTIFICATION

**Product Name:** GeBAflex-tube kit Protein, DNA and RNA Extraction and Dialysis Kit

**Catalog Numbers:** T010, T011, T014, T012, T020, T021, T024, T022, T013 and T023.

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### Description

Water solutions of components listed.

**Volume of each product package varies:** 5-20.0 ml.

<u>Components in Water Reagent</u>	<u>Concentration, %</u>
Potassium acetate	29%
Sodium deoxycholate	1%
Trichloroacetic acid	20%

### 3. HAZARDS IDENTIFICATION

#### Primary routes of entry

Skin or eye contact from splashes. Inhalation of the vapor at room temperature is unlikely.

#### Ingestion

Harmful if swallowed. *Trichloroacetic acid:* Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns.

#### Skin contact

May cause irritation. *Trichloroacetic acid:* Causes skin burns.

#### Eye contact

Irritating. *Trichloroacetic acid:* Causes severe eye burns.

#### Evidence for reproductive toxicity, carcinogenicity and mutagenicity

*Trichloroacetic acid:* Carcinogen group 3 by IARC. (Unclassifiable as to carcinogenicity to humans).

### 4. FIRST AID MEASURES

#### After skin contact

Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing. Get medical attention if irritating occurs.

#### After eye contact

Rinse opened eyes for several minutes under running water. Get medical aid immediately (*Trichloroacetic acid*).

#### After swallowing (ingestion)

Rinse mouth. Drink plenty of water. Get medical aid.

### 5. FIRE FIGHTING MEASURES

#### Fire and explosion hazards

Gives off irritating or toxic fumes in a fire.

#### Suitable extinguishing media

Water spray, carbon dioxide, extinguishing powder or foam.

#### Protective equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Not required.

### Environmental precautions

Do not allow entering sewers, surfaces or ground water.

### Measures for cleaning / collecting

Collect spilled liquid with liquid-binding material or inert absorbent and place it in container for disposal.

Wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

### Handling

No special measures necessary. Good laboratory technique should be used when handling.

### Storage

No special measures necessary. Store at 4°C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### Eye protection

Safety goggles (glasses) when risk of splashes.

### Skin protection

Protective gloves, a lab coat.

### Hygiene measures

Keep away from foodstuffs and beverages.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working with products.

### Breathing equipment

Not required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance Flash point

Liquid. No data available.

### Color Explosive properties

Colorless. No data available.

### Odor Vapor pressure

Odorless. *Trichloroacetic acid*: Acid-like. No data available.

### Boiling point

No data available.

## 10. STABILITY AND REACTIVITY

### Stability

Stable, under normal handling and storage conditions.

### Decomposition

No data available.

### Conditions to avoid

Contact with strong oxidants, fire.

## 11. TOXICOLOGICAL INFORMATION

Irritating to eyes. *Trichloroacetic acid*: Causes severe eye burns

Irritating to skin. *Trichloroacetic acid*: Causes skin burns.

*Trichloroacetic acid*: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns.

*Trichloroacetic acid*: Carcinogen group 3 by IARC. (Unclassifiable as to carcinogenicity to humans). Preparations may cause allergic reactions in certain sensitive individuals.

**12. ECOLOGICAL INFORMATION**

No data available.

**13. DISPOSAL CONSIDERATIONS**

Burn the material in a chemical incinerator equipped with an afterburner and scrubber.  
Observe all federal state and local environmental regulations.

**14. TRANSPORT INFORMATION**

Not regulated.

**15. REGULATORY INFORMATION**

**R36**

Irritating to eyes.

**R38**

Irritating to skin.

**R22**

Harmful if swallowed.

**S36/37/39**

Wear suitable protective clothing, gloves and eye/face protection.

**16. OTHER INFORMATION**

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features. Gene Bio-Application Ltd. is not held liable for any damage resulting from handling or from contact with the above products. MSDS has been prepared in accordance with EU Directive 67/548/EEC, 91/155/EEC and other EU Community legislations in force.

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