

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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