

MATERIAL SAFETY DATA SHEET

For SeeBand FORTE Protein staining Solution

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: SeeBand Protein Staining Solution (Protein staining in gel)

Catalog Numbers: SB010.

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Description

Water solutions of components listed.

Volume of each product package varies: 500 ml.

Components in Water Reagent	Concentration, %
Brilliant Blue G	< 1.0%
Ethanol	< 5.0%
Trichloroacetic acid	< 3%

3. HAZARDS IDENTIFICATION

Emergency Overview

Flammable liquid and vapor. Causes eye and skin burns. Harmful if swallowed.

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. Brilliant Blue G: avoid inhalation.

Skin contact

May cause irritation. *Trichloroacetic acid*: Causes skin burns. Brilliant Blue G: avoid contact.

Eye contact

Irritating. *Trichloroacetic acid*: Causes severe eye burns. Brilliant Blue G: avoid contact.

Evidence for reproductive toxicity, carcinogenicity and mutagenicity

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

Medical condition aggravated by overexposures

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.

Over exposure signs/symptoms

Not available.

4. FIRST AID MEASURES

After skin contact

Wash skin with cold 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 cold water. Get medical aid immediately (*Trichloroacetic acid*).

After swallowing (ingestion)

Rinse mouth. Drink plenty of water. Get medical aid. Do not induce vomiting.

After inhaling

Remove to fresh air. If breathing becomes difficult, call a physician.

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.

For small fire: use dry chemicals, CO₂, alcohol foam or water spray.

Large fire: use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build up, auto ignition or explosion.

Protective equipment

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Environmental precautions

Do not allow entering sewers, surfaces or ground water. Ventilate area and wash spill site after material pickup is complete

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.

Small spill and leak: dilute with water and mop up, or absorb with dry material and place in appropriate waste disposable container.

Large spill and leak: flammable liquid. Corrosive liquid. Keep away from heat Keep away from sources of ignition. Absorb with earth, sand or other non-combustible material.

7. HANDLING AND STORAGE

Handling

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

Storage

Keep away from heat. Keep away from sources of ignition. Keep in a cool well-ventilated place. Keep container tightly closed. **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

Compatible chemical-resistant gloves and 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

Required in large spill.

Other equipment

Safety shower and eye bath are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Flash point

Liquid. No data available.

Color Explosive properties

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.

Brilliant Blue G: Acute effects may cause skin irritation. May cause eye irritation. Material may be irritating to mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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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