

# MATERIAL SAFETY DATA SHEET

Company ELPIS-Biotech. Inc.

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Korea

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# **SECTION 1. CHEMICAL INFORMATION**

Product name Broad-range Pre-stained Markers (dual color)

Cat. No. EBM-1032

Protein in buffer solution; buffer solution. Volume of product package: 500ul.

Product Use: Laboratory Reagent. For R&D use only. Not for drug, household or other uses.

Manufacturer/ Supplier information

Supply company: ELPIS-Biotech. Inc.

Address: 123-12 Jeonglim-dong, Seo-gu, Daejeon, Korea

Information service or emergency call: +82-42-581-8448 (042-581-8448, Korea)

Department in charge: Research Department

#### SECTION 2. HAZARDOUS IDENTIFICATION

This product contains no substances which at their given concentration, are considered to be hazardous to health.



# Primary routes of entry

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

Sodium dodecyl sulfate(SDS): Large doses may cause gastrointestinal distress, Ingestion

nausea and diarrhea.

Skin contact May cause irritation

Eye contact Irritating

No data availalbe Evidence for reproductive toxicity, carcinogenicity and mutagenicity

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

# **Buffer's Components in Water:**

Reagent	CAS#	Concentration, %
Tris-HCI	77-86-1	≤ 1
Sodium chloride	7647-14-5	≤ 0.2
Dithiothreitol (DTT)	3483-12-03	≤ 1
Glycerol	56-81-5	≤ 50
EDTA	6381-92-6	≤ 0.1
Sodium dodecyl sulfate (SDS)	151-21-3	≤ 2
Bromophenol blue	62625-28-9	≤ 0.01

# **SECTION 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 attention if eyes become irritating.

### After swallowing (ingestion)

Rinse mouth. Drink plenty of water. Get medical attention if irritating or symptoms occur

## **SECTION 5. FIRE FIGHTING MEASURES**

### **Extinguishing media**

Water spray

Carbon dioxide, dry chemical powder or appopriate foam.

## Special firefighting procedures

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

## Unusual fire and explosions hazards

Emit toxic fumes undrer fire conditions

Prevent contact with skin and eyes.

### SECTION 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.

### SECTION 7. HANDLING AND STORAGE

#### Handling

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

#### **Storage**

No special measures necessary. Store at -20°C.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Exposure limits Eye protection Skin protection**

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

Hygiene measures Breathing equipment

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

AppearanceLiquid.ColorBuleOdorOdorless.

Flash point > 392 F, > 200° C

Explosive properties No data available.

Vapor pressure < 1 MMHG @ 20°C

# **SECTION 10. STABILITY AND REACTIVITY**

Stability Stable.

Hazardous polymerization Will not occur

Materials to Avoid Strong oxidizing agents, strong bases.

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide

**Protect from heat** 

## **SECTION 11. TOXICOLOGICAL INFORMATION**

**Eye Contact:** Irritating to eyes **Skin Contact** Irritating to skin.

Multiple Routes May be harmful by inhalation, ingestion, or skin absorption

Materials may be irritating to mucous membranes and upper respiratory tract.

Preparations may cause allergic reactions in certain sensitive individuals.

### SECTION 12. ECOLOGICAL INFORMATION

Data not yet avaliable

## **SECTION 13. DISPOSAL CONSIDERATIONS**

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

Observe all federal, state and local environmental regulations

Dissolve or mix the material with a combustable solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### **SECTION 14. TRANSPORT INFORMATION**

Contact ELPIS Biotech, Inc. Company for Transportation Information.

### **SECTION 15. REGULATORY INFORMATION**

Korea regulatory information: None of the ingredients listed.

Reviews, standards and Regulations:

ACGIH TLV-TWA 10 MG/M3 DTLVS\* TLV/BEI, 1999

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATIONOR RE-REGISTER FEREAC 54, 7740, 1989. MSHA STANDARD: NUISANCE PARTICULATES (MIST)

Indication of danger: Not hazardous
R -phrase(s): No information available
S -phrase(s): No information available

International inventories

### SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

ELPIS Biotech Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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