

# MATERIAL SAFETY DATA SHEET

Company ELPIS-Biotech. Inc.

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Korea

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#### **SECTION 1. CHEMICAL INFORMATION**

Product name PCR Marker plus 50bp

Cat. No. EBM-1007C

DNA in buffer solution; buffer solution. Volume of product package: 250ul.

**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**



**Primary routes of entry:** Skin or eye contact from splashes. Inhalation of the vapor at room temperature is unlikely.

**Potential Acute Health Effects**: Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects**: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys. Repeated or prolonged exposure to the substance can produce target organs damage.

Evidence for reproductive toxicity, carcinogenicity and mutagenicity: No data available

#### **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	≤ 0.98
Sodium chloride	7647-14-5	≤ 0.176
Glycerol	56-81-5	≤5
EDTA	6381-92-6	≤ 0.04

#### Components:

Glycerol	CAS: 56-81-5	EI;ECS: 200-289-5	≤20 %
water	CAS: 7732-18-5	EI;ECS: 231-791-2	≤70 %

**Other components** are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

#### **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.

Flash Point : N/A

Autoignition Temp: N/A

Flammability: N/A

#### 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**

Suitable: Keep tightly closed. 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

#### **Avoid inhalation**

Keep tightly closed store in a cool dry place. Freeze. Store at -20°C

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

AppearanceLiquid.ColorBuleOdorOdorless.Melting point20°CBoiling point182°C

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 and moisture

#### 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.

Chronic Effects Target organs, Kidney

#### **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.

US CLASSIFICATION AND LABEL TEXT

**US Statements: Caution**: Avoid contact and inhalation. 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

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

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

#### 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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