

MATERIAL SAFETY DATA SHEET

Company ELPIS-Biotech. Inc.

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SECTION 1. CHEMICAL INFORMATION

Product name 6x DNA Loading Buffer

Cat. No. EBA-1204

Volume of product package: 10ml.

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

HMIS RATING - Health: 2 Flammability: 0 Reactivity: 0

Hazardous/Non-hazardous Components

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Buffer's Components in Water:

Reagent	CAS#	Concentration, %
Glycerol	56-81-5	≤30
Bromophenol blue	62625-28-9	<0.1
Xylene cyanol	2650-17-1	<0.1

Chemical characterization

Description: Solution, consisting of the following components.

Components:

Glycerol CAS: 56-81-5 EI;ECS: 200-289-5 ≤30 %

SECTION 4. FIRST AID MEASURES

After skin contact

Generally the product does not irritate the skin. Wash skin with water and soap and rinse thoroughly.

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

After inhalation

Supply fresh air; consult doctor in case of complaints.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing media

Dry chemical

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special firefighting procedures

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

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 room temperature.

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

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory

equipment

Hand protection Protective gloves

Eye protection Safety glasses with side-shields Skin and body protection Lightweight protective clothing.

Hygiene measures

Handle in accordance with good industrial hygiene and safety

practice

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid.

Color Bule

Odor Odorless.

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: No information available.

Protect from heat

SECTION 11. TOXICOLOGICAL INFORMATION

Eye Contact: No irritant effect.

Skin Contact No irritant effect.

Sensitization No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for When used and handled according to specifications, the product does not have any harmful effects to Preparations as issued in the latest version. our experience and the information provided to us.

SECTION 12. ECOLOGICAL INFORMATION

Data not yet avaliable

SECTION 13. DISPOSAL CONSIDERATIONS

Recommendation: Smaller quantities can be disposed of with household waste.

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14. TRANSPORT INFORMATION

Contact ELPIS Biotech, Inc. Company for Transportation Information.

SECTION 15. REGULATORY INFORMATION

International Inventories

U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

U.S. State Regulations

California Proposition 65

This product does not contain chemicals listed under Proposition 65

WHMIS hazard class: Non-controlled

SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall beused 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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