

Pi-Lise Nucleic Acid Extraction Reagent

SDS - Safety Data Sheet

1. Identification of the mixture and of the company:

- 1.1 **Product name:** Pi-Lise Nucleic Acid Extraction Reagent.
- 1.2 **Use of the substance/mixture:** Research in Molecular Biology.
- 1.3 **Company Name:** Pi-Biotech Genética Avançada Ltda.
- 1.4 **Address:** Av. Presidente Itamar Franco, 4001, 518 W, Cascatinha, ZIP Code: 36033-318. Juiz de Fora - MG - Brazil
- 1.5 **E-mail:** faleconosco@pi-biotech.com

2. COMPOSITION/INFORMATION ON INGREDIENTS:

- 2.1 **Composition:** Product contains electrolyte buffer and proteases.

3. HAZARDS IDENTIFICATION:

- 3.1 **Classification of the substance or mixture:** Not a hazardous substance or mixture.
- 3.2 **Label elements:** Not a hazardous substance or mixture.
- 3.3 **Other hazards:** None.
- 3.4 **Unknown acute toxicity (GHS-US):** No data available.

4. FIRST AID MEASURES:

4.1 Description of first aid measures

- **First-aid measures general:** If exposed or concerned, consult a physician. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- **First-aid measures after inhalation:** If inhaled, remove to fresh air and keep at rest in a comfortable position for breathing. In cases of breathing difficulties, consult a physician.
- **First-aid measures after skin contact:** If on skin (or clothing): Remove affected clothing and wash all exposed skin for at least 15 minutes with tepid water. Consult a physician.

- **First-aid measures after eye contact:** If in eyes, immediately flush with plenty of tepid water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Consult a physician.
- **First-aid measures after ingestion:** If swallowed, never give anything by mouth to an unconscious person. Obtain medical assistance. Do not induce vomiting unless directed by medical personnel. If conscious and alert, rinse mouth and drink 2-4 full glasses of water.

4.2 Most important symptoms and effects, both acute and delayed:

- **Symptoms/injuries:** Not expected to present a significant acute hazard under anticipated conditions of normal use.
- **Symptoms/injuries after inhalation:** May cause irritation to respiratory tract.
- **Symptoms/injuries after skin contact:** May cause skin irritation.
- **Symptoms/injuries after eyes contact:** May cause eye irritation.
- **Symptoms/injuries after ingestion:** May cause irritation of the digestive tract.

4.3 **Indication any immediate medical attention and special treatment needed:** Not data available.

5. FIREFIGHTING MEASURES:

5.1 **Extinguishing media:** Adapt firefighting measures to site conditions and the surrounding environment.

5.2 **Unsuitable Extinguishing Agents:** For this mixture, there are no limitations on extinguishing agents.

5.3 Special hazards arising from the substance or mixture:

- **Fire hazard:** Emits toxic fumes under fire conditions.
- **Explosion hazard:** No data available.
- **Reactivity:** Can react with oxidizing agents and alkalis.

5.4 Advice for firefighters:

- **Firefighting instructions:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- **Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- **For non-emergency personnel:** Use full personal protective equipment. Do not breathe vapors or aerosols. Ensure adequate ventilation.
- **For emergency responders:** Wear suitable protective clothing, gloves, respirator and eye or face protection. Avoid contact with skin and eyes.
- **Environmental precautions:** Do not allow the product to enter drains.

6.2 Methods and material for containment and cleaning up: Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration and entry into sewers or streams. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation.

6.3 Reference to other sections: No additional information available.

7. HANDLING AND STORAGE:

7.1 Precautions for safe handling:

- **Precautions for safe handling:** Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Avoid breathing dust, vapour, mist, or gas. Avoid contact with eyes, skin, and clothing. Wash hands and other exposed areas with mild soap and water after handling material.

7.2 Conditions for safe storage, including any incompatibilities: Store in a tightly closed container. Avoid heat. Store in a cool, dry, well-ventilated area away from incompatible substances.

7.3 Storage class: Non-combustible liquids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

8.1 **Control parameters:** Contains no substances with occupational exposure limit values.

8.2 Exposure controls:

- **Appropriate engineering controls:** Provide adequate local and general exhaust ventilation. Ensure adequate ventilation, especially in confined areas. Ensure availability of safety shower and eyewash station.
- **Personal protective equipment:** Gloves, protective glasses and laboratory coat.



- **Hand protection:** Use gloves chemically resistant to this material. Suggested glove materials are neoprene or nitrile.
- **Eye protection:** Safety glasses should be worn when working with mixture. Avoid direct contact with eyes.
- **Skin protection:** Wear long-sleeved lab coat or chemically impermeable coveralls to minimize body exposure.
- **Respiratory protection:** necessary in case of formation of vapours/aerosols. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other associated standards relating to the respiratory protection system used.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties:

- Physical state: liquid.
- Color: Light brown.
- Odor: Data not available
- Odor Threshold: Data not available
- pH: Data not available
- Melting point: Data not available
- Freezing point: Data not available

- Boiling point: Data not available
- Flash point: Data not available
- Relative evaporation rate: Data not available
- Flammability (solid, gas): Data not available
- Vapor Pressure: Data not available
- Relative vapor density at 20 °C: No data available
- Relative density: Data not available
- Water solubility: Data not available
- Autoignition temperature: Data not available
- Decomposition temperature: Data not available
- Viscosity, kinematics: Data not available
- Viscosity, dynamic: Data not available
- Explosive properties: Data not available
- Oxidizing properties: Data not available
- Explosive limits: Data not available

9.2 **Other information:** None.

10. STABILITY AND REACTIVITY:

- 10.1 **Reactivity:** No dangerous reactions known under normal conditions of use.
- 10.2 **Chemical stability:** The product is chemically stable under standard ambient conditions (room temperature).
- 10.3 **Conditions to avoid:** Heat.
- 10.4 **Incompatible materials:** Strong oxidants, reacts mildly with alkalis.

11. TOXICOLOGICAL INFORMATION:

11.1 Information on toxicological effects:

- **Acute Toxicity:** No data available.
- **Skin corrosion/irritation:** No data available.
- **Serious eye damage/irritation:** No data available.
- **Respiratory or skin sensitisation:** No data available.
- **Germ cell mutagenicity:** No data available.

- **Carcinogenicity:** IARC - No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or proven human carcinogen by the IARC.
- **Reproductive toxicity:** No data available.
- **Specific target organ toxicity (single exposure):** No data available.
- **Specific target organ toxicity (repeated exposure):** No data available.
- **Aspiration hazard:** No data available.

11.2 Symptoms/injuries after inhalation: May cause respiratory irritation.

11.3 Symptoms/injuries after skin contact: May cause skin irritation.

11.4 Symptoms/injuries after eye contact: May cause eye irritation.

11.5 Symptoms/injuries after ingestion: May cause gastrointestinal irritation.

11.6 Additional Information: No additional information.

12. ECOLOGICAL INFORMATION:

12.1 Toxicity: No additional information available.

12.2 Persistence and degradability: No additional information available.

12.3 Bioaccumulative potential: No additional information available.

12.4 Mobility in soil: No additional information available.

12.5 Other adverse effects: No additional information available.

13. DISPOSAL CONSIDERATIONS:

13.1 Waste treatment methods: Waste material must be disposed of in accordance with national and local regulations. Uncontrolled disposal or recycling of this packaging is not permitted and can be dangerous.

14. TRANSPORT INFORMATION:

DOT Not hazardous for transport

IMDG No additional information available

IATA No additional information available

14.1 Special precautions for users: Not dangerous product according to transport regulations.

15.1 Safety, health, and environmental regulations specific to the substance or mixture: This Chemical Product Information Sheet was prepared in accordance with ABNT NBR 14725-4/2014 (Brazilian Association of Technical Standards).

15.2 international regulations: No additional information available.

16. OTHER INFORMATION:

16.1 Further information: The above information is believed to be correct, although it is not intended to be all-inclusive and should only be used as a guide. The information contained in this document is based on the present state of our knowledge and applies to the appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Pi-Biotech Genética Avançada Ltda. shall not be liable for any damage resulting from handling or contact with the above product. Permission granted to make unlimited number of paper copies, for internal use only.