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|-----------------------------------------------------------------------------------|-----------------------------------|-----------------------|---------|-------------------------|
|  | <b>MATERIAL SAFETY DATA SHEET</b> |                       |         | <b>Quality From 047</b> |
|                                                                                   | Issued by: QA                     | Eff. Date: 01.05.2025 | Rev.: A | Approved by: E. du Toit |

## Inorganic Pyrophosphatase

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Inorganic Pyrophosphatase  
**Synonyms:** IPPase  
**Product Code:** PY01  
**Manufacturer:** Fluorobiotech (Pty) Ltd  
**Address:** LaunchLab Bio, 11 Hammanshand Road, Stellenbosch Central, Stellenbosch, 7599, South Africa  
**Emergency Phone:** (+27) 0 87 265 4363  
**Email Contact:** info@fluorobiotech.com  
**Product Use:** In vitro transcription reactions. Research use only.

### SECTION 2: COMPOSITION / INFORMATION OF INGREDIENTS

**Ingredient:** Recombinant enzyme  
**CAS No:** N/a  
**Activity:** 100 U/mL  
**SARA 313 Reportable:** N/a  
**OSHA Exposure Limit:** None  
**ACGIH Exposure Limit:** None

### SECTION 3: HAZARDS IDENTIFICATION

**Classification:** Not classified as hazardous  
**Emergency Overview:** May cause skin irritation and / or dermatitis  
**Principle Routes of Entry:** Skin  
**Potential Health Effects**  
**Eyes:** Avoid contact with eyes  
**Skin:** May cause allergic skin reaction  
**Ingestion:** May be harmful if swallowed  
**Inhalation:** May cause irritation of the respiratory tract  
**Statement of Hazard:** May cause allergic skin reaction  
**Statement of Spill/Leak:** Absorb and/or contain spill with inert materials e.g. sand  
Flush spill area with water  
**Carcinogenicity:** N/a

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#### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Rinse immediately with plenty of water and seek medical advice  
**Skin Contact:** Rinse immediately with plenty of water and seek medical advice  
**Inhalation:** Move to fresh air and seek medical advice  
**Ingestion:** Do not induce vomiting without medical advice  
**Notes to Physicians or First Aid Providers:** None

#### SECTION 5: FIRE-FIGHTING MEASURES

**Flammable Limit in Air:** Non-flammable  
**Flashpoint:** Not determined (n/a)  
**Autoignition Temp:** Not determined (n/a)

##### NFPA Hazard Classification:

**Health:** 1  
**Flammability:** 0  
**Reactivity:** 0

##### HMIS Hazard Classification:

**Health:** 1  
**Flammability:** 0  
**Reactivity:** 0  
**Protection:** B

**Extinguishing Media:** N/a

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** N/a (not hazardous)

#### SECTION 7: HANDLING AND STORAGE

**Handling:** Wear eye protection and PVC or latex gloves  
**Storage:** Store at –20°C or –80°C. See CoA for related shelf life.

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

|                                                                                   |                                   |                       |         |                         |
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**Ventilation:** Ensure adequate ventilation.

**Respiratory Protection:** Breathing apparatus required only if aerosol or dust is formed

**Eye Protection:** Safety glasses

**Skin Protection:** PVC or other plastic gloves

**Hygiene Practices:** Handle in accordance with good laboratory hygiene and safety practice

**Exposure Guidelines:** Avoid contact with skin

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear liquid

**Odor:** Odourless

**Physical State:** Solid

**pH as Supplied:** pH 8

**Boiling point:** Not determined

**Melting point:** Not determined

**Freezing point:** Not determined

**Vapor Pressure (mmHg):** Not determined

**Vapor Density (AR = 1):** Not determined

**Specific Gravity (H2O = 1):** Not determined

**Evaporation Rate:** Not determined

**Solubility in Water:** No

**Percent Solids by Weight:** 0

**Percent Volatile:** 0

**Volatile Organic Compounds:**

**With Water: LBS/GAL:** N/a

**Without Water: LBS/GAL:** N/a

**Molecular Weight:** 21 kDa

**Viscosity:** Not determined

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions

**Conditions to Avoid (Stability):** Exposure to moisture; repeated freeze/thaw cycles

**Conditions to Avoid (Polymerization):** None determined

**Incompatible Materials:** None determined

**Hazardous Decomposition or By-Products:** None

**Hazardous Polymerization:** None under normal processing

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| Pg. 4 of 5                                                                        |                                   |                       |         |                         |

## SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information: No known toxicity

## SECTION 12: ECOLOGICAL INFORMATION

Ecological Information: No known ecological impact

Section 12 Notes: No listings

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated Packaging: Dispose of as unused product

## SECTION 14: TRANSPORT INFORMATION

DOT (US): Not classified as dangerous goods

IMDG: Not classified as dangerous goods

IATA: Not classified as dangerous goods

## SECTION 15: REGULATORY INFORMATION

Regulatory Information: No known hazards

## SECTION 16: OTHER INFORMATION

Preparation Information: Fluorobiottech (Pty) Ltd

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|                                                                                   |                            |                       |         | Pg. 5 of 5              |

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