

	MATERIAL SAFETY DATA SHEET			Quality From 047
	Issued by: QA	Eff. Date: 01.05.2025	Rev.: A	Approved by: E. du Toit

T7 RNA Polymerase

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: T7 RNA Polymerase
Synonyms: -
Product Code: T750 / T7100
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: 50 000 U/mL / 100 000 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: 99 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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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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