

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

HIV-1 gp41- Recombinant Protein

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: HIV-1 gp41 Recombinant protein (Subtype B, Ectodomain)
Synonyms: -
Product Code: BA01B-C
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: HIV-1 capture; HIV-1 research only

SECTION 2: COMPOSITION / INFORMATION OF INGREDIENTS

Ingredient: Recombinant protein
CAS No: N/a
% WT: 1 mg/mL
% Vol: 1 mg/mL when reconstituted
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 lyophilised at 15 °C – 25 °C in a dry environment; see CoA for storage after reconstitution.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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:	White powder
Odor:	Odourless
Physical State:	Solid
pH as Supplied:	pH 9.6 when reconstituted in pure, sterile H ₂ O
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:	16 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

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Hazardous Decomposition or By-Products: None
Hazardous Polymerization: None under normal processing

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

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Preparation Information: Fluorobiotech (Pty) Ltd

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