SECTION 1: Identification of mixture and of company Identification

1.1. Product identifier	
Product name	: Insulin-like Growth Factor (IGF-1)
Product form	: Freeze-dried powder
LOT number	:20250819-IGF

1.2. Relevant identified uses of th	ne substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Function or use category	: For research use, and as an ingredient in biomanufacturing and cellular agriculture.
1.2.2. Uses advised against	
Restrictions on use	: Not suitable for diagnostic use, clinical or veterinary applications, or direct human consumption.

1.3 Details of the supplier/ manufacturer	
Company name	Immobazyme (Pty) Ltd The Woodmill, Shop 8, Block C Devonvallei Road Stellenbosch South Africa
Contact person	Ethan Hunter, COO +27 82 425 0058 ethan@immobazyme.com

1.4 Emergency telephone number

+27 112 (South Africa 24/7)

SECTION 2: Hazard(s) Identification

2.1. Classification of the substance or mixture

According to the Globally Harmonized System (GHS) and Regulation (EC) No. 1272/2008 [CLP], this product is not classified as a hazardous substance or mixture.

2.2 Label elements			
	1		a take
	, ,		

Hazard pictograms : None
Signal word : None

Hazardous statement

H334 : May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Precautionary statement

Prevention

P261 : Avoid breathing dust/fume/gas/mist/vapours/spray

P264 : Wash hands thoroughly after handling

P284 : [In case of inadequate ventilation] wear respiratory

protection

Response

P304+P340 : IF INHALED: Remove person to fresh air for breathing P342+P311 : If experiencing respiratory symptoms: Call a POISON

CENTRE/doctor.

Disposal

P501 : Dispose of contents/ container in accordance with

related laws and local/ regional regulations

Supplemental hazard information: Not applicable

2.3. Other hazards

The substance does not meet the criteria for PBT (Persistent, Bioaccumulative and Toxic) or vPvB (very Persistent and very Bioaccumulative) according to Annex XIII of REACH.

No other hazards identified.

SECTION 3: Composition/information on ingredients

3.1. Substances	
Substance name : Recombinant Human Insulin-like Growth Factor Synonyms : IGF-1, Insulin-like Growth Factor 1	
CAS number	: 67763-96-6
EC number	: Not assigned
Molecular weight	: ~29 kDa
Purity	: 2 90% purity (recombinant protein, lyophilized or in buffer)
REACH registration number	: Not applicable (biological protein, exempt)
The product contains no substan	aces which at their given concentration, are considered to

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

3.2. Mixtures

Not applicable

SECTION 4: Composition/information on ingredients

4.1. Description of first aid measure	s
First-aid measures general	: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
First-aid measures after inhalation	: Remove to fresh air. Seek medical attention if breathing difficulties occur.
First-aid measures after skin contact	: Wash with soap and water. Remove contaminated clothing.
First-aid measures after eye contact	: Remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
First-aid measures afer ingestion	: Rinse mouth. If large amounts ingested and discomfort occurs, seek medical attention.
Notes to physician	: Treat symptomatically.

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

Symptoms/effects : May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

4.3. Indication of any immediate medical attention and special treatment needed None

SECTION 5: Firefighting measures

SECTION 5.1. Extinguishing media

Suitable extinguishing media : Water spray, carbon dioxide (CO2), foam, dry

chemicals.

Unsuitable extinguishing media : No information available

5.2. Special hazards arising from the substance or mixture

No information available

5.3. Advice for firefighters

Standard procedure for chemical fires

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personne

Personal precautions : Ensure adequate ventilation. Use personal

protection equipment.

6.1.2 For emergency responders

Protective equipment : Use personal protection recommended in Section 8.

Emergency procedures : Keep unnecessary personnel away. Evacuate area.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material.

6.4. Reference to other sections

See Section 8 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
7.1.1 Precautions for safe handling	: Use personal protective equipment as required. No special handling advice is necessary
7.1.2 Hygiene measures	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

7.2 Conditions for safe storage, including any incompatibilities	
Store in a tightly closed container in a clean, dry, and well-ventilated area.	
Conditions for safe storage	: The lyophilised vial can be stored at -20 °C for 12 months.
	: The reconstituted protein aliquots can be stored at -20°C for 6 months.
	: Once resuspended use within 1 week (storage at 4°C).
Protect from	: Moisture (may degrade or clump protein) : Light (sensitive to photodegradation)
	: Excessive heat (loss of biological activity above 37 °C)
Incompatible materials	: strong oxidising agents and strong acids or bases,
Ensure secondary containment to avoid accidental release in freezers/refrigerators shared with other reagents.	

7.3. Specific end use(s)

Suitable for research use, and as an ingredient in biomanufacturing and cellular agriculture. Not suitable for diagnostic use, clinical or veterinary applications, or direct human consumption.

SECTION 8: Exposure controls/personal protection

Exposure limits : Contains no substances with occupational exposure limit values Engineering measures : Ensure adequate ventilation, especially in confined

8.2. Expose Controls	
Personal protection equipment	: No special protective equipment required.
Eye and face protection	: No special protective equipment required.
Respiratory protection	: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	: Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	
No special environmental precauti	ons required.

SECTION 9: Physical and chemical properties

Colour	White
Appearance	Lyophilised Powder
Odour	None
Stability	Not applicable
Melting point	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable
Flammability	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable
Explosive limits	Not applicable
Lower explosive limit (LEL)	Not applicable
Upper explosive limit (UEL)	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Ignition temperature	Not applicable
рН	~7.4
pH solution	Not applicable
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Solubility	Not applicable
Log Kow	Not available
Vapour pressure	Not applicable
Vapour pressure at 50°C	Not applicable
Density	Not applicable
Relative density	Not applicable
Relative vapour density at 20°C	Not applicable
Particle size	Not applicable
Particle size distribution	Not applicable
Particle shape	Not applicable
Particle aspect ratio	Not applicable
Particle aggregation state	Not applicable
Particle agglomeration state	Not applicable
Particle specific surface area	Not applicable
Particle dustiness	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes No additional information available.

9.2.2. Other safety characteristics No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal handling condition.

10.2. Chemical stability

Stable under normal handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reaction expected under normal handling

10.4. Conditions to avoid

Avoid acids and oxidizing substances

10.5. Incompatible materials

No dangerous reaction known under conditions of normal use

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Principle routes of exposure Potential Health Effects

Eyes : May cause eye irritation. No data available

Skin : May cause skin irritation. No data available

Inhalation : May be harmful by inhalation. No data available

Digestion : May be harmful if swallowed. No data available

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

Aspiration hazard : No data available

Target organ effects (single and

repeated exposure)

: No data available

11.2. Information on other hazards

Endocrine disrupting propertie : All substance are not listed in the candidate list as

having endocrine disrupting properties.

Other adverse effects : No information available

SECTION 12: Ecological information

12.1. Ecological information	
Ecotoxicity	: Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants
Persistence and degradability	: No information
Bioaccumulative potential	: No information
Mobility in soil	: No information
Other adverse effects	: No information

SECTION 13: Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with local/regional/national/international regulations. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Product/Packaging disposal : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other information : Disposal must be done according to official

regulations.

European List of Waste (LoW) code : The Waste code should be assigned in discussion

between the user, the producer and the waste disposal

company.

SECTION 14: Transport information

14.1. UN number or ID number

Not regulated in the meaning of transport regulations

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Environmental hazards

When transporting, avoid direct sunlight. Confirm no leakage to containers. When loading, prevent containers from falling, dropping off or damaging. Take preventive measures of collapse.

14.7. Special precautions for user

Not applicable

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture

No information available

15.2. Chemical safety assessment

Not conducted

SECTION 16: Other Information

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