

SAFETY DATA SHEET



BASIC FIBROBLAST GROWTH FACTOR (BOVINE)

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SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY IDENTIFICATION

PRODUCT INFO

PRODUCT NAME

FGF-2 BOVINE

PRODUCT TYPE

Recombinant protein

BATCH DETAILS

CAS: 106096-93-9

LOT: 20241213-FGF2

MANUFACTURER

Immobazyme

Immobazyme (Pty) Ltd
The Woodmill,
Shop 8, Block C
Devonvallei Road
Stellenbosch
South Africa



BASIC FIBROBLAST GROWTH FACTOR (BOVINE)

Relevant identified uses: For research use only.

- Cell proliferation and survival
- Pluripotency maintenance
- Differentiation support
- Angiogenesis promotion
- Wound healing and tissue regeneration

In case of an emergency: please dial your local emergency number immediately.

This could be 911 in the United States, 999 in the United Kingdom, or another number depending on your location. Additionally, you can contact your local health service or hospital for urgent medical assistance.

It's important to seek help as soon as possible in emergencies.

For information about this SDS, please contact info@immobazyme.com



SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture	
Hazard Classification	Not Hazardous
Physical Hazards	Not Hazardous
Health Hazards	Not Hazardous
Environmental Hazard	Not Hazardous
Signal Word(s)	None
Additional information	Not Applicable
Hazard Statements	Not Applicable
EU Specific Hazard Statements	Not Applicable
Precautionary Statements	
Prevention	Not Applicable
Response	Not Applicable
Storage	Not Applicable
Disposal	Not Applicable
Hazardous Statements	Not Applicable
Pictograms	No Pictogram
Description of Other Hazards: This mixture does not contain any substances that are assessed to be a PBT or a vPvB	



SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Mixtures

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

SECTION 4: FIRST-AID MEASURES

Description of first aid measures

After Skin Contact	Rinse skin with water. Immediate medical attention is not required.
After Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After Inhalation	Not expected to be an inhalation hazard, however, consult a physician if necessary.
After Ingestion	Not expected to be an ingestion hazard, however, consult a physician if necessary.
Notes to Physician	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	Not Applicable
Indication of any immediate medical attention and special treatment need	None



SECTION 5: FIRE-FIGHTING MEASURES

Classification of the substance or mixture	
Extinguishing media	
Suitable extinguishing media	<ul style="list-style-type: none">• Water spray• Carbon dioxide• Foam• Dry chemical
Unsuitable extinguishing media	No Information available
Special hazards arising from the substance or mixture	Not known
Special protective equipment for firefighters	Standard procedure for chemicals fires

SECTION 6: ACCIDENTAL RELEASE MEASURES

Classification of the substance or mixture
<p>Personal Precautions, protective equipment and emergency procedures:</p> <ul style="list-style-type: none">• Ensure adequate ventilation.• Always wear recommended Personal Protective Equipment (PPE).• Use personal protection equipment. <p>Measures for environmental protection: No special environmental precautions required.</p> <p>Measures for cleaning/collecting: Take up mechanically, placing in appropriate containers for disposal.</p>



SECTION 7: HANDLING AND STORAGE

Handling

Use personal protective equipment as required. No special handling advice is necessary.

Storage

Store at -20 °C for long-term storage or 2 -8 °C for short-term storage.

Specific end uses(s)

For research use only.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters	
Exposure Limits	Contains no substance with occupational exposure limit values.
Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Exposure Controls	
Personal Protection Equipment	
Respiratory Protection In case of insufficient ventilation wear respirators and components are tested and approved under appropriate government standards.	
Hand Protection Wear suitable gloves: Compatible chemical-resistant gloves.	
Eye protection Tight sealing safety goggles.	
Skin/Body Protection Wear suitable protective clothing.	
Hygiene Measures Handle in accordance with good industrial hygiene and safety practices.	
Environmental exposure controls: None	



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	Lyophilized powder
Oder	Odorless
Oder Threshold	No Data
pH	No Data
Melting Point/Range	No Data
Boiling Point/Range	No Data
Flash Point	No Data
Evaporation Rate	No Data
Flammability	No Data
Upper/lower flammability/ explosive limits	No Data
Auto Ignition Temperature	No Data
Danger of Explosion	No Data
Vapor Pressure	No Data
Vapor Range	No Data
Relative Density	No Data
Solubility in/Miscibility with water	No Data
Information with regards to physical hazard classes: No information available. Other safety characteristics: No information available.	



SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous reactions have not been reported.

Conditions to avoid: No information available.

Incompatible materials: No dangerous reaction is known under conditions of normal use.

Hazardous decomposition products: No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008. There is no evidence available indicating acute toxicity.

Acute Toxicity: No Data Available.

PRINCIPLE ROUTES OF EXPOSURE	POTENTIAL HEALTH EFFECTS
Skin	No data available
Eyes	No data available
Inhalation	No data available
Ingestion	No data available
Carcinogenic Effects	No data available



Mutagenic Effects	No data available
Reproductive Toxicity	No data available
Sensitization	No data available
Target Organs	No data available
Information on other hazards Endocrine disrupting properties: No information available.	

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

Mobility

No data available.

Biodegradation

No data available.

Bioaccumulation

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Waste Treatment Methods

Efforts should be made to prevent or reduce waste generation whenever feasible. Empty containers or liners might contain residual products. Both the material and its container should be disposed of using approved disposal methods. The disposal of this product, its solutions, or any by-products must adhere to the regulations outlined in relevant local, regional, or national/federal guidelines.



SECTION 14: TRANSPORT INFORMATION (NON-MANDATORY)

IATA/ADR/DOT-US/IMDG	Not regulated
UN Number or ID Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport Hazard Class(es):	Not applicable
Packing Group	Not applicable
Marine Pollutant	No data available
Environmental Hazard	Not hazardous
Special Precautions For User	Not applicable
Maritime transport in bulk according to IMO instruments	Not applicable

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

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

Substances of Very High Concern	None
Substance Subject to Authorization per REACH Annex XIV	None
Restricted Substances Under EC 1907/2006, Annex XVII	None
Regulation (EC) No 649/2012	None



Regulation(EU) No 2019/1021	None
EU - Substances Depleting the Ozone layer (1005/2009):	None
German Water Hazard Classes	Not classified
Other International Inventories	Not information available
Chemical Safety Assessment	No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

SDS date of preparation/update: 09/12/2024

References

ECHA: <http://echa.europa.eu/>

OXNET: <http://toxnet.nlm.nih.gov/>

eChemPortal: <http://www.echemportal.org/>

LOLIdatabase: <https://www.chemadvisor.com/loli-database>

Classification and procedure used to derive the classification for mixtures according to Regulation(EC) 1272/2008 [CLP]: Not classified

This safety data sheet adheres to the requirements outlined in Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878, which amends Annex II to Regulation (EC) No 1907/2006.

The information provided has been diligently researched and/or investigated, and the recommendations are based on professional judgment. It's important to note that this information may not cover all potential risks and should be used solely as a guideline. All materials and mixtures have the potential to pose unknown hazards and should be handled with caution. As the company cannot oversee the actual methods, quantities, or conditions of use, we cannot be held responsible for any damages or losses resulting from handling or contact with the product described herein. It's essential to understand that the information in this SDS does not constitute a warranty, whether expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose.

