



Safety Data Sheet for Future Fields' Recombinant Bovine FGF2

Effective Date: 13 May 2023

Section 1: Identification of the Substance/Mixture and of the Company

Identification of the Substance:

- Product name: Recombinant Bovine FGF2
- Other names: Recombinant Bovine Fibroblast Growth Factor 2
- Recommended Use: For Research Use Only. Not for diagnostic or therapeutic use.

Company/Undertaking Identification:

Future Fields Cellular Agriculture and Research LTD.
11130 105 Avenue NW
Edmonton, AB, Canada, T5H0L5

24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, or Exposure. Call Environmental 360 Solutions

- Canada wide: 1-833-463-3607

24 hour Emergency Response for Fire, Exposure or Accident.

- Canada and USA: Call 911
- Outside the USA and Canada: Call the local emergency response number.

Section 2: Hazardous Ingredients

Relevant Ingredients (≥1%): None

Mixture ingredients are Non-Hazardous according to GHS Classification Guidelines (less than 1% of mixture).

Section 3: Composition / Information on Ingredients

The product contains no hazardous substances at concentration of 1% or greater. This product is not known to contain carcinogens at a concentration of 0.1% or greater. We recommend handling all chemicals with caution.



Chemical Name	CAS #
Recombinant Protein	106096-93-9
Buffer Components	
Sodium chloride	7647-14-5
Phosphoric acid, disodium salt	7558-79-4
Phosphoric acid, potassium salt (1:1)	7778-77-0
Potassium chloride	7447-40-7

Section 4: First Aid Measures

Description of first aid measures

Skin contact	Rinse skin with water. Immediate medical attention is not required. If symptoms occur, seek medical advice.
Eye contact	Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. If symptoms persist, seek medical attention.
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If symptoms occur, seek medical advice.
Inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Remove casualty personnel to fresh air. If symptoms occur, seek medical attention immediately.
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 needed	None
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Section 5: Fire or Explosion Measures

Extinguishing media

Suitable extinguishing media	Water spray Carbon dioxide (CO ₂) Foam Dry chemicals
Unsuitable extinguishing media	No information available
Special hazards arising from the substance or mixture	No information available
Protective equipment and precautions for firefighters	Standard procedure for chemical fires

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protection equipment.

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See Section 8 for more information.

Section 7: Handling and Storage





Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

For Research Use Only. Not for diagnostic or therapeutic use.

Section 8: Exposure Controls

Control Parameters

Exposure Limits	Contains no substances with occupational exposure limit values.
Engineering Measures	Ensure adequate ventilation, especially in confined areas

Exposure Controls

Personal Protective Equipment	<p>Respiratory protection: In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.</p> <p>Hand protection: Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.</p> <p>Eye protection: Tight sealing safety goggles.</p> <p>Skin and Body Protection: Wear suitable protective clothing.</p>
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental Exposure Controls	No special environmental precautions required.

Section 9: Physical and Chemical Properties



Appearance	Lyophilized powder
Odor	No data
Odor Threshold	No data
Molecular Weight	No data
pH	8.0
Melting point / melting range	No data
Boiling point / boiling range	No data
Flash point	No data
Autoignition Temperature	No data
Decomposition temperature	No data
Evaporation rate	No data
Flammability (solid, gas)	No data
Upper explosion limit	No data
Lower explosion limit	No data
Vapor Pressure	No data
Vapor density	No data
Relative density	No data
Specific gravity	No data
Solubility	No data
Partition coefficient:	No data
n-octanol/water	No data
Viscosity	No data
Explosive properties	No data



Oxidizing properties	No data
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Other information: No data

Section 10: Stability and Reactivity

Reactivity: None known

Chemical stability: Stable under normal conditions

Possibility of hazardous reaction: No information available

Conditions to avoid: No information available

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

Hazardous decomposition products: No data available

Section 11: Toxicological Information

Information on toxicological effects:

There is no evidence available indicating acute toxicity.

Principal 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.
Ingestion	May be harmful if swallowed. No data available.
Carcinogenic	No data available.
Germ Cell Mutagen	No data available.
Sensitization	No data available.





Target Organ Effects (single and repeated exposure)	No data available.
Reproductive Toxicity	No data available.
Aspiration Hazard	No data available.

Section 12: Ecological Information

Ecotoxicity

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

Mobility in soil: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Other adverse effects

No information available.

Section 13: Disposal

Waste treatment methods

Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved local disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Section 14: Transport Information

IATA / ADR / DOT-US / IMDG: Not regulated in the meaning of transport regulations

UN number: None

UN proper shipping name: None

Transport hazard class(es): None

Packing group: None

Environmental hazards: None

Special precautions for user: Not Applicable





Section 15: Regulatory Information

Safety Regulatory Information

No information available.

Health Regulatory Information

No information available.

Environmental Regulatory Information

No information available.

Section 16: Other Information

Date of Creation: 18 Nov, 2022

Usage: For Research Use Only. Not for diagnostic or therapeutic use.

References

- [CCOHS](#)
- [ILPI](#)
- [Environmental 360 Solutions](#)
- [Thermo Fisher Scientific - Documents and Support](#)

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE

End of Safety Data Sheet

