


**Safety Data Sheet: Recombinant Human PDGF-BB, Tag Free (Lyophilized Product)**
**Section 1: Identification**

<b>Identification of the Substance:</b>	<ul style="list-style-type: none"> <li>Product name: Recombinant Human PDGF-BB, Tag Free</li> <li>Other names: Recombinant Human PDGF-2, Proto-oncogene c-SIS, Becaplermin</li> <li>Recommended Use: For Research Use Only. Not for diagnostic or therapeutic use.</li> </ul>
<b>Company/Undertaking Identification:</b>	<ul style="list-style-type: none"> <li>Future Fields Cellular Agriculture and Research LTD. 11130 105 Avenue NW, Edmonton, AB, Canada, T5H0L5</li> </ul>
<b>24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, or Exposure</b>	<ul style="list-style-type: none"> <li>Emergency response: Call Environmental 360 Solutions</li> <li>Canada wide: 1-833-463-3607</li> </ul>
<b>24 hour Emergency Response for Fire, Exposure or Accident</b>	<ul style="list-style-type: none"> <li>Canada and USA: Call 911</li> <li>Outside the USA and Canada: Call the local emergency response number</li> </ul>

**Section 2: Hazard(s) Identification**

- 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 substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Chemical name	CAS #
Recombinant protein	N/A
Sodium acetate	127-09-3
Sodium chloride	7647-14-5



### Section 4: First-Aid Measures

#### Description of First Aid Measures

<b>Skin contact</b>	Rinse skin with water. Immediate medical attention is not required. If symptoms occur, seek medical advice.
<b>Eye contact</b>	Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. If symptoms persist, seek medical attention.
<b>Ingestion</b>	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If symptoms occur, seek medical advice.
<b>Inhalation</b>	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.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Most important symptoms and effects, both acute and delayed:</b> Not Applicable	
<b>Indication of any immediate medical attention and special treatment needed:</b> None	

### Section 5: Fire-Fighting Measures

#### Extinguishing Media

<b>Suitable extinguishing media</b>	Water spray, carbon dioxide (CO <sub>2</sub> ), foam, dry chemicals
<b>Unsuitable extinguishing media</b>	No information available
<b>Special hazards arising from the substance or mixture</b>	No information available
<b>Protective equipment and precautions for firefighters</b>	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/Personal Protection

**Control Parameters**

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

**Exposure Controls**

<b>Personal Protective Equipment (PPE)</b>	<p><b>Respiratory protection:</b> In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards</p> <p><b>Hand protection:</b> Wear suitable gloves; Glove material: Compatible chemical-resistant gloves</p> <p><b>Eye protection:</b> Tight sealing safety goggles</p> <p><b>Skin and body protection:</b> Wear suitable protective clothing</p>
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practices
<b>Environmental exposure controls</b>	No special environmental precautions required.



### Section 9: Physical and Chemical Properties

<b>Appearance</b>	Lyophilized powder	<b>Upper explosion limit</b>	No data
<b>Odor</b>	No data	<b>Lower explosion limit</b>	No data
<b>Odor threshold</b>	No data	<b>Vapor pressure</b>	No data
<b>Molecular weight</b>	No data	<b>Vapor density</b>	No data
<b>pH</b>	5.0	<b>Relative density</b>	No data
<b>Melting point / melting range</b>	No data	<b>Specific gravity</b>	No data
<b>Boiling point / boiling range</b>	No data	<b>Solubility</b>	No data
<b>Flash point</b>	No data	<b>Partition coefficient:</b>	No data
<b>Autoignition temperature</b>	No data	<b>n-octanol/water</b>	No data
<b>Decomposition temperature</b>	No data	<b>Viscosity</b>	No data
<b>Evaporation rate</b>	No data	<b>Explosive properties</b>	No data
<b>Flammability (solid, gas)</b>	No data	<b>Oxidizing properties</b>	No data

**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 (non-mandatory)

- **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 Considerations (non-mandatory)

#### 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 (non-mandatory)

- **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 (non-mandatory)

- **Safety Regulatory Information:** No information available
- **Health Regulatory Information:** No information available
- **Environmental Regulatory Information :** No information available

### Section 16: Other Information

**Date of the latest version:** 09 December 2024

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

#### References

- [CCOHS](#)
- [OSHA](#)
- [WHMIS](#)
- [Environmental 360 Solutions](#)

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**End of Safety Data Sheet**