

Safety Data Sheet: Recombinant Human Interleukin-2, Tag Free

Section 1: Identification

| | |
|---|--|
| Identification of the Substance: | <ul style="list-style-type: none"> Product name: Recombinant Human Interleukin-2, Tag Free Other names: Recombinant Human IL-2, Tag Free Recommended Use: For Research Use Only. Not for diagnostic or therapeutic use. |
| Company/Undertaking Identification: | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Emergency response: Call Environmental 360 Solutions Canada wide: 1-833-463-3607 |
| 24 hour Emergency Response for Fire, Exposure or Accident | <ul style="list-style-type: none"> Canada and USA: Call 911 Outside the USA and Canada: Call the local emergency response number |

Section 2: Hazard(s) Identification

| |
|---|
| <ul style="list-style-type: none"> 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 |
| Tris hydrochloride | 1185-53-1 |
| Sodium chloride | 7647-14-5 |

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

Section 5: Fire-Fighting 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/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

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



Section 9: Physical and Chemical Properties

| | | | |
|--------------------------------------|--------------------|-------------------------------|---------|
| Appearance | Lyophilized powder | Upper explosion limit | No data |
| Odor | No data | Lower explosion limit | No data |
| Odor threshold | No data | Vapor pressure | No data |
| Molecular weight | No data | Vapor density | No data |
| pH | 7.4 | Relative density | No data |
| Melting point / melting range | No data | Specific gravity | No data |
| Boiling point / boiling range | No data | Solubility | No data |
| Flash point | No data | Partition coefficient: | No data |
| Autoignition temperature | No data | n-octanol/water | No data |
| Decomposition temperature | No data | Viscosity | No data |
| Evaporation rate | No data | Explosive properties | No data |
| Flammability (solid, gas) | No data | Oxidizing properties | 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: 08 July 2024

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

References

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

Copyright © 2024 All rights reserved by Future Fields Cellular Agriculture and Research Ltd.

FUTURE FIELDS® is a trademark of Future Fields Cellular Agriculture and Research Ltd., a company registered in Canada.

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