

# SAFETY DATA SHEET

---

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### Identification of the substance:

**Product name:** *Ento-Tf Transferrin Enriched Growth Media Supplement - Insect Derived*

**Other names:** Recombinant Bovine Transferrin

**Recommended Use:** For research 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 ( $\geq 1\%$ )

**None**

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

---

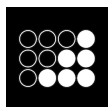
## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

Last revised: 21 Dec 2021

Product name: Ento-Tf Enriched Growth Media Supplement

[www.futurefields.io](http://www.futurefields.io)



# SAFETY DATA SHEET

Chemical name	CAS #	Common name	W/V %
Total protein		Protein	<1.0
Ethylenediaminetetraacetic acid	6381-92-6	EDTA	0.7444
Tris hydrochloride	1185-53-1	Tris-HCl	0.605
Sodium chloride	7647-14-5	NaCl	0.8766

---

## 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 to fresh air. If symptoms occur, seek medical attention.

**Notes to Physician:** Treat symptomatically

### Most important symptoms and effects, both acute and delayed

Not Applicable

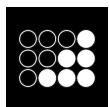
### Indication of any immediate medical attention and special treatment needed

None

Last revised: 21 Dec 2021

Product name: Ento-Tf Enriched Growth Media Supplement

[www.futurefields.io](http://www.futurefields.io)



# SAFETY DATA SHEET

---

## SECTION 5: FIRE OR EXPLOSION MEASURES

### Extinguishing media

**Suitable extinguishing media:** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Unsuitable extinguishing media:** No information available

### Special hazards arising from the substance or mixture

Not known

### 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 advices are necessary.

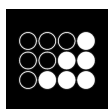
### Conditions for safe storage, including any incompatibilities

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

Last revised: 21 Dec 2021

Product name: Ento-Tf Enriched Growth Media Supplement

[www.futurefields.io](http://www.futurefields.io)



# SAFETY DATA SHEET

## Specific end use(s)

For research 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**

**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.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls:** No special environmental precautions required.

---

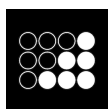
## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Orange coloured 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

Last revised: 21 Dec 2021

Product name: Ento-Tf Enriched Growth Media Supplement

[www.futurefields.io](http://www.futurefields.io)



# SAFETY DATA SHEET

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

## Other information

No data

---

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

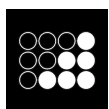
None known.

### Chemical stability

Last revised: 21 Dec 2021

Product name: Ento-Tf Enriched Growth Media Supplement

[www.futurefields.io](http://www.futurefields.io)



# SAFETY DATA SHEET

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:

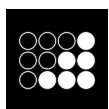
There is no evidence available indicating acute toxicity.

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.
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.

Last revised: 21 Dec 2021

Product name: Ento-Tf Enriched Growth Media Supplement

[www.futurefields.io](http://www.futurefields.io)



# SAFETY DATA SHEET

Aspiration Hazard	No data available.
-------------------	--------------------

---

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water 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

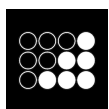
### Special precautions for user

Not Applicable

Last revised: 21 Dec 2021

Product name: Ento-Tf Enriched Growth Media Supplement

[www.futurefields.io](http://www.futurefields.io)



# SAFETY DATA SHEET

---

## 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: July 26, 2021

For research only. Not for diagnostic or therapeutic use.

### References

- CCOHS: [https://www.ccohs.ca/oshanswers/chemicals/whmis\\_ghs/sds.html](https://www.ccohs.ca/oshanswers/chemicals/whmis_ghs/sds.html)
- ILPI: <http://www.ilpi.com/msds/osha/>
- Environmental 360 Solutions:  
<http://www.e360s.ca/liquid-special-waste/emergency-response/>
- Thermo Fisher Scientific - Documents and Support:  
<https://www.thermofisher.com/search/results?docTypes=SDS&persona=DocSupport&linkIn=true>

"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**

Last revised: 21 Dec 2021

Product name: Ento-Tf Enriched Growth Media Supplement

[www.futurefields.io](http://www.futurefields.io)