

## GHS SAFETY DATA SHEET

### ESF 921 Δ Series: Insect Cell Culture Medium, Custom Amino Acid Deficient

#### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ESF 921 Δ Series: Insect Cell Culture Medium,  
Custom Amino Acid Deficient

**Manufacturer:** Expression Systems, LLC  
2537 2nd Street  
Davis, CA 95618  
Tel. 1-530-747-2035  
Fax 1-530-747-2034

**Product Use:** For research use only.  
Not for human or animal therapeutic or clinical diagnostic use.

**Product Number:** 96-299

#### SECTION 2 – HAZARDS IDENTIFICATION

**GHS Classification:**

**Physical State:** Clear Yellow Liquid

**Classification:** Not classified as a hazard

**HMIS Rating:** Health: 0      Flammability: 0      Reactivity: 0

#### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

**Substance Name:** ESF 921 Δ Series: Insect Cell Culture Medium, Custom Amino Acid Deficient

**CAS Number:** None

**SARA 313:** No

**Ingredients:** This product contains no substances which at their given concentration are considered to be hazardous to health. Ingredients are withheld as a trade secret, but are available to health professionals, ES employees and designated representatives in accordance with applicable provisions of 29 CFR 1910.1200(i)(1)(iv).

#### SECTION 4 – FIRST AID MEASURES

**Skin Contact:** Remove contaminated clothing and shoes. Wash skin thoroughly with plenty of water.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If breathing is stopped, give artificial respiration.

**Ingestion:** Rinse mouth with water. Do not give anything by mouth to an unconscious person.

**Eye Exposure:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check and remove contact lenses. Seek medical advice.

**Notes to physician:** Treat symptomatically.

#### SECTION 5 – FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Dry chemical powder

**Auto Ignition Temperature:** Not Applicable

**Protection for Firefighters:** Self-contained breathing apparatus and protective suit

**NFPA Rating:** Health: 0      Flammability: 0      Reactivity: 0

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protective equipment. Prevent contact with skin or eyes (see section 8).

**Methods for cleaning up:** Clean up with inert absorbent material

#### SECTION 7 – HANDLING AND STORAGE

**Handling:** No special handling advice required

**Storage:** Store in properly labeled containers

## SECTION 8 – PRECAUTIONS TO CONTROL EXPOSURE/PERSONAL PROTECTION

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment (PPE):

**Eye Protection:** Avoid contact with eyes. Wear safety glasses with side shields.

**Skin Protection:** Prevent contact with the skin as much as possible. Wear protective rubber gloves and lab coat.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

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

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear yellow liquid solution

**pH:** 6.10-6.25

**Melting/Freezing Point:** °C/°F – No data available

**Boiling Point:** °C/°F – No data available

**Flash Point:** °C/°F – No data available

**Auto-ignition Temperature:** °C/°F – No data available

**Oxidizing Properties:** No information available

**Water Solubility:** No data available

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable

**Hazardous decomposition products:** No information available

**Hazardous polymerization:** Will not occur

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Likely routes of exposure:** Inhalation, eye and skin contact, ingestion

### Acute toxicity and effects:

**Inhalation:** No information available

**Eye contact:** No information available

**Skin contact:** No information available

**Ingestion:** No information available

### Specific effects:

**Carcinogenic:** No information available

**Mutagenic:** No information available

**Teratogenic/Reproductive:** No information available

**Sensitization:** No information available

**Target organ effects:** No information available

**Chronic (long-term) effects:** No known effect based on information supplied

## SECTION 12 – ECOLOGICAL INFORMATION

**Eco-toxicity:** No information available

**Degradability:** Inherently biodegradable

**Bioaccumulation:** Does not bio-accumulate

## SECTION 13 – WASTE DISPOSAL CONSIDERATIONS

**Waste disposal method:** Disposal of this product, solutions and any by-products should comply with all federal, state and local regulations

## SECTION 14 – TRANSPORT INFORMATION

**DOT:**

**Proper shipping name:** None

**Hazard Class:** This substance is considered to be non-hazardous for transport

**IATA:**

**Proper shipping name:** None

**Hazard Class:** This substance is considered to be non-hazardous for transport

## SECTION 15 – REGULATORY INFORMATION

**United States Regulatory Information:**

**SARA 313:** This product is not regulated by SARA.

**Clean Air Act, Sec. 112 Hazardous Air Pollutants (HAPs):** This product does not contain HAPs.

**California Proposition 65:** This product does not contain chemicals listed under Proposition 65.

**WHMIS Hazard Class:** Non-controlled.

## SECTION 16 – OTHER INFORMATION

**Issuing Date:** Jun 2016

**Reissue date/reason for reissue:** Feb 2017/Corrected formatting errors.

**Intended use of product:** Material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use.

**Disclaimer:** The information provided on this SDS is correct to the best of our knowledge, information, and belief at the date of its publication. It does not purport to be all inclusive and shall be used only as a guide for safe handling, use, processing, storage, transportation, disposal and release of the product. This is not considered as a warranty or quality specification. Expression Systems shall not be held liable for any damage resulting from the handling or from contact with the above product.