

GHS SAFETY DATA SHEET

293-ES Cells, Suspension in ESF SFM

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: 293-ES Cells, Suspension in ESF SFM
Manufacturer: Expression Systems, LLC
2537 Second Street
Davis, CA 95618
Tel. 1-530-747-2035
Fax 1-530-747-2034

Product Use: For laboratory use.
Not for human or animal therapeutic or clinical diagnostic use.

Product Number: 94-007S

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification:

Physical State: Slightly viscous translucent liquid

Classification: WARNING- Irritant. Hazardous if absorbed.

GHS Label:



HMIS Rating: Health: 1 Flammability: 0 Reactivity: 0

Potential Health Effects: Eyes: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Skin: Can cause moderate skin irritation, defatting and dermatitis. Not likely to cause permanent damage.

Inhalation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. No toxicity expected from inhalation.

Ingestion: Irritating to mouth, throat and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name: 293-ES Cells, Suspension in ESF SFM

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. If irritation develops, seek medical advice.

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 20 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: 1 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

Exposure Limits:

<u>Component</u>	<u>OSHA PEL (ppm)</u>	<u>AGCIH TWA (ppm)</u>
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Dimethyl Sulfoxide	Not established	Not established
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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:	White slightly viscous liquid	Flash Point:	°C/°F – No data available
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pH:	Not established	Auto-ignition Temperature:	°C/°F – No data available
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Melting/Freezing Point:	°C/°F – No data available	Oxidizing Properties:	No information available
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Boiling Point:	°C/°F – No data available	Water Solubility:	No data available
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SECTION 10 – STABILITY AND REACTIVITY

Stability:	Stable under normal conditions	Incompatible Materials:	Strong oxidizing agents
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Hazardous decomposition products:	No information available	Hazardous polymerization:	Will not occur
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SECTION 11 – TOXICOLOGICAL INFORMATION

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

Acute toxicity and effects:

Inhalation:	No information available	Skin contact:	Dimethyl sulfoxide 40 gm/kg
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Eye contact:	No information available	Ingestion:	Dimethyl sulfoxide 14,500 mg/kg
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Specific effects:

Carcinogenic:	No information available	Teratogenic/Reproductive:	No information available
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Mutagenic:	No information available	Sensitization:	No information available
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Target organ effects: No information available. Target organs: Blood, skin, eyes.

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

SECTION 12 – ECOLOGICAL INFORMATION

Eco-toxicity: No information available

Degradability: Biodegrades slowly

Bioaccumulation: Not expected to occur

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:

TSCA: This product is solely for research and development purposes only and may not be used, processed or distributed for commercial purpose. It may only be handled by technically qualified individuals.

SARA 313: This product does not contain any 313 chemicals regulated by SARA.

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

Canada Regulatory Information:

DSL/NDSL: Not determined

European Union Regulatory Information:

Product Risk Phrases: None assigned

Product Safety Phrases: None assigned

Product Classification: None

SARA listed: No

SECTION 16 – OTHER INFORMATION

Issuing Date: May 2016

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

Intended use of product: Material is sold for Research Use Only. Not for use in diagnostic procedures or human/animal therapeutics.

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.