

GHS SAFETY DATA SHEET

Tni Cells, Frozen in ESF 921

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tni Cells, Frozen in ESF 921
Product Use: For laboratory use.
Not for human or animal therapeutic or clinical diagnostic use.
Product Number: 94-002F

Manufacturer: Expression Systems, LLC
2537 Second Street
Davis, CA 95618
Tel. 1-530-747-2035
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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: Dimethyl Sulfoxide

CAS Number: 67-68-5 **EINECS:** 200-664-3 **Concentration by weight:** 5%

Ingredients: The above ingredients are components classified as hazardous based on physical properties and health effects. Other 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

pH: Not established

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 under normal conditions

Hazardous decomposition products: No information available

Incompatible Materials: Strong oxidizing agents

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: Dimethyl sulfoxide 40 gm/kg

Ingestion: Dimethyl sulfoxide 14,500 mg/kg

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. 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

Component: Dimethyl sulfoxide **WHMIS Hazard Class:** D2B

European Union Regulatory Information:

Product Risk Phrases: None assigned

Product Safety Phrases: None assigned

Product Classification: None

Component: Dimethyl sulfoxide **EINECS Number:** 200-664-3

SARA listed: No

SECTION 16 – OTHER INFORMATION

Issuing Date: Jan 2013

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.