

# SAFETY DATA SHEET

(in accordance with COMMISSION REGULATION (EU) No 830/2015)

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product name: TniPRO™ Cells, Frozen in ESF AdvanCD

Product Number: 94-031

Chemical Name: Not Applicable

REACH registration number: No registration number is given yet for this substance/substances in this mixture as the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For laboratory use. Not for human or animal therapeutic or clinical diagnostic use.

### 1.3 Details of the supplier of the safety data sheet

Company: Expression Systems, LLC  
2537 Second Street  
Davis, California, 95618  
USA

Telephone: +1 877-877-7421  
+1 530-747-2035

Fax: +1 530-747-2034

Emergency Phone: +1 530-747-2035 Hours of operation: 16:00-01:00 UTC/08:00-17:00 PST (UTC-8)

## SECTION 2 – HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

WARNING- Irritant. Hazardous if absorbed.

### 2.2 GHS label elements

#### Hazard Pictograms:



#### 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 mouth, throat and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

### 2.3 Other hazards- None

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substance Name:** Dimethyl Sulfoxide

**3.2 Mixture name:**

**CAS Number:** 67-68-5

**ENEICS:** 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

**4.1 Description of 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.

**4.2 Most important symptoms and effects, both acute and delayed**

None

**4.3 Indication of any immediate medical attention and special treatment needed**

None

### SECTION 5 – FIREFIGHTING MEASURES

**5.1 Extinguishing Media**

**Suitable extinguishing media:** Dry Chemical powder

**5.2 Special hazards arising from the substance or mixture:** No data

**5.3 Advice for Firefighters**

**Auto Ignition Temperature:** Not Applicable

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

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment, and emergency procedures**

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

**6.2 Environmental precautions**

No special environmental precautions required.

**6.3 Methods and material for containment and cleaning up**

Clean up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal, see section 13.

### SECTION 7 – HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

No special handling advice required

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in properly labeled containers.

#### 7.3 Specific end use(s)

No uses other than those specified in section 1.2.

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

#### 8.1 Exposure limits:

<u>Component</u>	<u>OSHA PEL (ppm)</u>	<u>AGCIH TWA (ppm)</u>
Dimethyl Sulfoxide	Not established	Not established

#### 8.2 Exposure Controls

**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

#### 9.1 Information on basic physical and chemical properties

**Appearance:** White, slightly viscous liquid

**pH:** Not established

**Odor:** No data available

**Melting/Freezing Point:** No data available

**Boiling Point:** No data available

**Flash Point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** 0

**Upper/lower flammability  
or explosive limits** N/A

**Auto-ignition Temperature:** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Oxidizing Properties:** No information available

**Water Solubility:** No data available

**Decomposition temp:** No information available

**Viscosity:** Not established

**Explosive properties:** No data available

## 9.2 Other safety information

### SECTION 10 – STABILITY AND REACTIVITY

**10.1 Chemical stability:** Stable under normal conditions

**10.2 Possibility of hazardous reactions:** Hazardous reaction has not been reported

**10.3 Conditions to avoid:** No information available

**10.4 Incompatible materials:** Strong oxidizing agents

**10.5 Hazardous decomposition products:** No information available

### SECTION 11 – TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

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

**Acute toxicity and effects:**

<b>Inhalation:</b>	No information available
<b>Eye contact:</b>	No information available
<b>Skin contact:</b>	Dimethyl sulfoxide 40gm/kg
<b>Ingestion:</b>	Dimethyl sulfoxide 14,500 mg/kg

**Specific effects:**

<b>Carcinogenic:</b>	No information available
<b>Mutagenic:</b>	No information available
<b>Teratogenic/Reproductive:</b>	No information available
<b>Sensitization:</b>	No information available
<b>Target organ effects:</b>	No information available. Target organs: blood, skin, eyes.
<b>Chronic (long-term) effects:</b>	No known effect based on information supplied

### SECTION 12 – ECOLOGICAL INFORMATION

**12.1 Toxicity:** No information available

**12.2 Persistence and degradability:** Biodegrades slowly

**12.3 Bioaccumulation:** Not expected to occur

**12.4 Mobility in soil:** No information available

**12.5 Results of PBT and vPvB assessment:** No information available

**12.6 Other adverse effects:** No information available

### SECTION 13 – WASTE DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Disposal of this product, solutions and any by-products should comply with all applicable federal, state and local regulations.

**SECTION 14 – TRANSPORT INFORMATION**

**14.1 UN/NA Number:** Not Applicable

**14.2 UN/NA proper shipping name:** Not Applicable

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

**IATA:** Not hazardous goods

**DOT (US):** Not hazardous goods

**MDG:** Not hazardous goods

**SECTION 15 – REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****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 individual.

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

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

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

**WHMIS Hazard Class:** D2B

**Massachusetts Right to Know Components:** None **CAS No.**

**New Jersey Right to Know Components:** None **CAS No.**

**Pennsylvania Right to Components:** None **CAS No.**

**SECTION 16 – OTHER INFORMATION****HMIS Rating**

Health hazard: 1

Chronic health hazard: 0

Flammability: 0

Physical hazard: 0

**NFPA Rating**

Health: 1

Flammability: 0

Reactivity: 0

**Issuing Date:** Oct 2023

**Reissue date/reason for reissue:** Initial Release

**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.