

NFPA Rating:

Health: 1

Flammability: 0

Reactivity: 0

Tni PRO<sup>™</sup> Cells, Frozen in ESF 921

SECTION 1 – PRODU	CT AND COMPANY IDENTIFICATIO	N			
Product Name:	Tni PRO <sup>™</sup> Cells, Frozen in ESF 921	Manufacturer:	Expression Systems, LLC		
Product Use:	For laboratory use.		2537 Second Street Davis, CA 95618		
	Not for human or animal therapeutic or clinic	al diagnostic use.	Tel. 1-530-747-2035		
Product Number:	94-018F Fax 1-530-747-2034				
<b>SECTION 2 – HAZAR</b>	DS IDENTIFICATION				
GHS Classification:					
Physical State:	Slightly viscous translucent liquid				
Classification:	WARNING- Irritant. Hazardous if absorbed.				
GHS Label:	$\widehat{1}$				
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, defa	atting and dermatitis. Not likely to cause per	manent 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 – COMPC	SITION/INFORMATION ON INGRED	IENTS			
Substance Name:	Dimethyl Sulfoxide				
CAS Number:	67-68-5 <b>ENEICS</b> : 200	-664-3 Concentration b	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					
Skin Contact:	Remove contaminated clothing and shoes. W advice.	Ash skin thoroughly with plenty of water. If	irritation develops, seek medical		
Inhalation:	Move to fresh air. If breathing is difficult, give	oxygen. If breathing is stopped, give artifici	al 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 – FIREFIC	GHTING MEASURES				
Suitable Extinguishing Me					
Auto Ignition Temperature	Not Applicable				
Protection for Firefighters	Self-contained breathing apparatus	Self-contained breathing apparatus and protective suit			

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 - HANDL					
Handling:	No special handling advice required				
Storage:	Store in properly labeled containers				
SECTION 8 – PRECA Exposure Limits:	UTIONS TO CONTROL EXPOSURE/PERSONAL PROTECTION				
<u>Component</u>	OSHA PEL (ppm) AGCIH TWA (ppm)				
Dimethyl Sulfoxide	Not established Not established				
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 – PHYSIC Appearance:	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 - STABI	LITY 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:

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. Targ	et organs: Blood, skin, eyes.			
Chronic (long-term) effects	:	No known effect based on info	ormation supplied			
SECTION 12 – ECOLOGICAL INFORMATION						
Eco-toxicity:		nation available				
Degradability:	Biodegrades slowly					
Bioaccumulation:	Not expected to occur					
SECTION 13 – WASTE		SAL CONSIDERATIONS	3			
Waste disposal method:			ny by-products should comply with all f	ederal, state and local regulations		
SECTION 14 - TRANS		NFORMATION				
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 In	formation	:				
TSCA:			arch and development purposes only a pose. It may only be handled by technic			
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 Informa	ation:					
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				

	ISSUE date: FEB 2017			
SECTION 16 – OTHER INFORMATION				
Issuing Date:	Feb 2017			
Reissue date/reason for reissue:	N/A			
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.			