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Ι.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE CO	MIPAN I/UNDERTAKIN				
.1	Product Identifiers						
	Product Name:	MEM (Earle's salts), no glutamine, no pheno	l red				
	Catalog Number:	M29450					
<b>。</b>	-		dagainst				
.2	Relevant identified uses of the substance or mixture and uses advised against						
•	Identified Uses: For <i>in vitro</i> research use only. Details of the supplier of the safety data sheet						
.3		-	Talashara	4 000 040 7475			
	Company:	R&D Systems, Inc. a Bio-Techne Brand 614 McKinley Place NE	Telephone: Fax:	1-800-343-7475 1-612-656-4400			
		Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com			
			Email address:	info@bio-techne.com			
	Canada:	21 Canmotor Avenue	Telephone: Fax:	1-855-668-8722 902-827-6402			
		Toronto, Ontario M8Z4E6 Canada	Email address:	Canada.inquiries@bio-techne.com			
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449			
		Abingdon Science Park	Fax:	44 (0)1235 533420			
		Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com			
	China:	1193 Changning Road	Telephone:	86-400-821-3475			
		Unit 1901, Raffles City Changning Office	Fax:	76 (021) 52371001			
		Shanghai	Email address	techsupport.cn@bio-techne.com			
4	Emergency Telephone	Number					
		emical emergency, spill, leak, fire, exposure, or acc 2-379-2956 or 800-343-7475 / Europe: +44(0)1235					
		-379-2956 or 800-343-7475 / Europe: +44(0)1235					
	Bio-Techne Tel: US:612	-379-2956 or 800-343-7475 / Europe: +44(0)1235 ATION					
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.1	Bio-Techne Tel: US:612 HAZARDS IDENTIFIC Classification of the substance does not Label Elements	-379-2956 or 800-343-7475 / Europe: +44(0)1235 ATION ubstance or mixture	5-529449 / China 86-400-8	21-3475 C, 1272/2008 [CLP], GHS or 29 CFR 1910.1200 [OSHA].			
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2.1 2.2 3. 3.1 3.2 4. 1.1	Bio-Techne Tel: US:612 HAZARDS IDENTIFIC Classification of the si This substance does not Label Elements The product does not ne COMPOSITION/INFO Substances Not applicable. Mixtures This product does not c FIRST AID MEASURE Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air anc In Case of Skin Contaa Immediately wash skin In Case of Eye Contac Flush with copious amo If Swallowed Rinse mouth with water Most important sympt To the best of our know	ATION ubstance or mixture it meet the classification criteria of the EC Directive eed to be labelled in accordance with EC directives RMATION ON INGREDIENTS ontain hazardous chemicals at concentrations of 1 ES I measures now this safety data sheet. It monitor breathing. If breathing becomes difficult, ct with copious amounts of soap and water for at leas t unts of water for at least 15 minutes. Consult a doo Do not induce vomiting unless directed to do so b oms and effects, both acute and delayed	5-529449 / China 86-400-8 es 67/548/EEC, 1999/45/E s or respective national law % or greater. This product give oxygen. If breathing s st 15 minutes. Remove con ctor. by medical personnel. Nev perties have not been tho	21-3475 C, 1272/2008 [CLP], GHS or 29 CFR 1910.1200 [OSHA]. vs. 2.3 Other Hazards - None is not known to contain carcinogens at concentrations of 0.1% or greater. tops, give artificial respiration. Consult a doctor. ntaminated clothing and shoes and wash before reuse. Consult a doctor. er give anything by mouth to an unconscious person. Consult a doctor.			

5	FIRE-FIGHTING MEASURES

## 5.1 Extinguishing Media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

## 5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

#### 6. ACCIDENTIAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

## 6.2 Environmental precautions

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.

## 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

## 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

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

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

## Specific end uses

7.3

Not applicable.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

# Appropriate Engineering Controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

# Personal Protective Equipment

# Eye / Face Protection

Use appropriate safety glasses.

## **Skin Protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

# **Body Protection**

Wear appropriate protective clothing.

# **Respiratory Protection**

If risk assessment indicates necessary, use a suitable respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Lyophilized white powder or clear liquid.	Vapor Pressure	No data available.
Odor	Little to none.	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
рН	No data available.	Solubility	No data available.
Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
Flash Point	No data available.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.
Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.

	Upper / Lower Flammabili Explosive Limits	t <b>y or</b> No data available.	Oxidizing Properties	No data available.			
9.2	Other safety information						
	No data available.						
0.	STABILITY AND REACT	IVITY					
0.1	Reactivity						
	Stable under recommended	I transport or storage conditions.					
0.2	Chemical stability						
	Stable under recommended	I storage conditions.					
0.3	Possibility of hazardous r	eactions					
	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.						
0.4	Conditions to avoid						
	Heat, moisture.						
0.5	Incompatible materials						
	Strong acids/alkalis, strong	oxidizing/reducing agents.					
0.6	Hazardous decomposition						
	Strong acids/alkalis, strong						
1. 1.1	TOXICOLOGICAL INFO						
1.1	Information on toxicologi						
	Acute Toxicity						
	Classified based on availab	ie data.					
	Skin Corrosion / Irritation						
	Classified based on available data.						
	Serious Eye Damage / Irritation						
	Classified based on available data.						
	Respiratory or Skin Sensitization						
	Classified based on available data.						
	Germ Cell Mutagenicity						
	Classified based on available data.						
	Carcinogenicity						
	Classified based on available data.						
	Reproductive Toxicity						
	Classified based on available data.						
	Specific Target Organ Toxicity - Single Exposure						
	Classified based on available data.						
	Specific Target Organ Toxicity - Repeated Exposure						
	Classified based on availab	Classified based on available data.					
	Aspiration Hazard						
	Classified based on available data.						
	Symptoms / Routes of Ex						
	Inhalation:	There may be irritation of the throat with a feeling	g of tightness in the chest.				
	Ingestion:	There may be irritation of the throat.					
	Skin:	There may be mild irritation at the site of contact					
	Eyes:	There may be irritation and redness.					
	Delayed/Immediate Effects: No known symptoms.						
	Additional Information						
	Classified based on available data.						
2.	ECOLOGICAL INFORMA	TION					
2.1							

12.1 Toxicity

No data available.

12.2 Persistence and degradability

# No data available.

12.3 Bio accumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

# 12.5 Results of PBT and vPvB assessment

No data available.

# 12.6 Other adverse effects

No data available.

# 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

# Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

## Contaminated Packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

# 14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

# 14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

#### 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

# 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

## 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

## 14.5 Environmental hazards

Does not meet the criteria for classification as hazardous for transport.

## 14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

#### Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

# 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic Substances Control Act): Not applicable. SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

# 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

#### 16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet