

1.		THE SUBSTANCE/MIXTURE AND OF THE CO	MPANY/UNDERTAKIN	G			
	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING						
.1	Product Identifiers						
	Product Name:	MEM-Alpha, 25 mM HEPES, no nucleosides	, GlutaminePlus, no phene	bl red			
	Catalog Number:	M34950					
2	Ū.		dagainst				
2	Relevant identified uses of the substance or mixture and uses advised against						
•	Identified Uses: For in vitro research use only.						
3	Details of the supplier of the safety data sheet						
	Company:	R&D Systems, Inc. a Bio-Techne Brand	Telephone: Fax:	1-800-343-7475 1-612-656-4400			
		614 McKinley Place NE Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com			
			Email address:	info@bio-techne.com			
	Canada:	21 Canmotor Avenue	Telephone:	1-855-668-8722			
		Toronto, Ontario M8Z4E6	Fax:	902-827-6402			
		Canada	Email address:	Canada.inquiries@bio-techne.com			
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449			
	ennea rungaenn	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					
	Bio-Techne Tel: US:612	-379-2956 or 800-343-7475 / Europe: +44(0)1235	5-529449 / China 86-400-8	21-3475			
	Bio-Techne Tel: US:612		5-529449 / China 86-400-8	21-3475			
.1		ATION	5-529449 / China 86-400-8	21-3475			
	HAZARDS IDENTIFIC	ATION ubstance or mixture		21-3475 C, 1272/2008 [CLP], GHS or 29 CFR 1910.1200 [OSHA].			
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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 y or 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 reactions							
	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 availab							
	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 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