

	IDENTIFICATION OF						
1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING Product Identifiers						
	Product Name:						
			· · · · · · · · · · · · · · · · · · ·				
	Catalog Number:	M17350					
.2		es of the substance or mixture and uses advise	ed against				
	Identified Uses: For <i>in vitro</i> research use only.						
1.3	Details of the supplier	of the safety data sheet					
	Company:	R&D Systems, Inc. a Bio-Techne Brand	Telephone:	1-800-343-7475			
		614 McKinley Place NE	Fax: Internet:	1-612-656-4400 www.rndsystems.com			
		Minneapolis, MN 55413, USA	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			
	3	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 Shanghai	Fax: Email address	76 (021) 52371001 techsupport.cn@bio-techne.com			
4	Emanue au Talankana	-		techsupport.cn@bio-techne.com			
4	Emergency Telephone	mical emergency, spill, leak, fire, exposure, or acc					
		-379-2956 or 800-343-7475 / Europe: +44(0)1235	5-529449 / China 86-400-8	21-3475			
	HAZARDS IDENTIFIC	ATION	5-529449 / China 86-400-8	21-3475			
	HAZARDS IDENTIFIC	ATION ubstance or mixture					
.1	HAZARDS IDENTIFIC. Classification of the set This substance does no	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.

.2 0. 0.1	Other safety information No data available.						
	No data available.						
D.1	STABILITY AND REACTI	νιτγ					
	Reactivity						
	Stable under recommended	transport or storage conditions.					
0.2	Chemical stability						
	Stable under recommended	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.						
D.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	oxidizing/reducing agents.					
. 	TOXICOLOGICAL INFOR						
1.1	Information on toxicologic	ai effects					
	Acute Toxicity						
	Classified based on available 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 available data.						
	Aspiration Hazard						
	Classified based on available data.						
	Symptoms / Routes of Exp						
	Inhalation:	There may be irritation of the throat with a feelin	ng of tightness in the chest.				
	Ingestion:	There may be irritation of the throat.					
	Skin:	There may be mild irritation at the site of contact	xt.				
	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	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