

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1

1.2

1.3

 Product Identifiers
 Mouse Amphiregulin DuoSet ELISA, 15 Plate

 Product Name:
 DY989

 Components:
 Capture Antibody

 Detection Antibody
 Detection Antibody

 Standard (contains Proclin 300 Mixture = .005%)
 Streptavidin-HRP (contains Proclin 300 Mixture = .005%)

 Relevant identified uses
 For research use only.

 Details of the supplier of the safety data sheet
 Details of the supplier of the safety data sheet

Company:	R&D Systems, Inc. a Bio-Techne Brand 614	Telephone:	1-800-343-7475
	McKinley Place NE	Fax:	1-612-656-4400
	Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	21 Canmotor Ave	Telephone:	1-855-668-8722
	Toronto, ON M8Z 4E6	Fax:	902-827-6402
		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 Changning Office	Fax:	76 (021) 52371001
	Shanghai, China	Email address:	techsupport.cn@bio-techne.com

1.4 Emergency Telephone Number

For chemical emergency, spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within U.S. 1-800-262-8200 Worldwide 1-703-741-5500 Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475

2. HAZARDS IDENTIFICATION

See additional safety data sheets.



1.1	IDENTIFICATION OF Product Identifiers	THE SUBSTANCE/MIXTURE AND OF THE CO	MPANY/UNDERTAKING	
	Product Name:	Capture Antibody		
.2	Relevant identified us	es of the substance or mixture and uses advised	against	
	Identified Uses:	For research use only.		
.3	Details of the supplier	r of the safety data sheet		
	Company:	R&D Systems, Inc. a Bio-Techne Brand	Telephone:	1-800-343-7475
		614 McKinley Place NE	Fax:	1-612-656-4400
		Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com
			Email address:	info@bio-techne.com
	Canada:	21 Canmotor Ave	Telephone:	1-855-668-8722
		Toronto, ON M8Z 4E6	Fax:	902-827-6402
			Email address:	Canada.inquiries@bio-techne.com
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449
	Ū.	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 Changning Office	Fax:	76 (021) 52371001
		Shanghai, China	Email address:	techsupport.cn@bio-techne.com
2.	-	cy, spill, leak, fire, exposure, or accident call CHEMTF 12-379-2956 or 800-343-7475 / Europe: +44(0)1235- CATION		
2.	For chemical emergence Bio-Techne Tel: US: 61 HAZARDS IDENTIFIC Classification of the s	cy, spill, leak, fire, exposure, or accident call CHEMTF 12-379-2956 or 800-343-7475 / Europe: +44(0)1235- CATION	529449 / China 86-400-821-34	75
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4.2 Most important symptoms and effects, both acute and delayed

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To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

No data available.

4.3 Indication of immediate medical attention and special treatment needed

4.3	Indication of immediate medical attent	tion and special treatment needed				
	Show this safety data sheet to the doctor	in attendance. Immediate medical attention is r	equired.			
5.	FIRE-FIGHTING MEASURES					
.1	Extinguishing Media					
	Suitable extinguishing media					
	Use water spray, alcohol-resistant foam,	dry chemical or carbon dioxide.				
.2	Special hazards arising from the subs	tance or mixture				
	In combustion, may emit toxic fumes.					
.3	Precautions for fire-fighters					
.0	-	ent contact with skin and eyes and self-containe	d breathing apparatus.			
	ACCIDENTAL RELEASE MEASURE	S				
1	Personal precautions, protective equip					
			personnel to safe areas. Ensure ac	dequate ventilation. Avoid breathing vapors, mist, dust		
	or gas.	5		5 (Frid) -		
.2	Environmental precautions					
	Do not let product enter drains.					
.3	Methods and materials for containment	nt and cleaning up				
	Cover spillage with suitable absorbent m	aterial. Hold all material for appropriate disposa	l as described under section 13 of	SDS.		
.4	Reference to other sections					
	For required PPE see section 8. For disp	oosal see section 13.				
	HANDLING AND STORAGE					
.1	Precautions for safe handling					
	Avoid inhalation, contact with eyes, skin	and clothing. Avoid the formation of dust and a	erosols. Use in a well-ventilated are	ea. Keep away from sources of ignition. Avoid prolonged		
	or repeated exposure.	-				
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.			
.3	Specific end uses					
	Not applicable.					
-	EXPOSURE CONTROLS/PERSONA	L PROTECTION				
.1	Control parameters					
	Components with workplace and cont	rol parameters				
	Contains no substances with occupation	al exposure limit values.				
.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.					
.3	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, u	se a suitable respirator.				
	PHYSICAL AND CHEMICAL PROPE	RTIES				
1	Information on basic physical and che	emical 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.		
	nH	No data available	Solubility	No data available		

Solubility

No data available.

	Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
	Boiling Point / Range	No data available.	Auto ignition 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 Flammability or Explosive Limits	No data available.	Oxidizing Properties	No data available.
9.2	Other safety information No data available.			
10.	STABILITY AND REACTIVITY			
10.1	Reactivity			
	Stable under recommended transpo	rt or storage conditions.		
10.2	Chemical stability			
	Stable under recommended storage	conditions.		
10.3	Possibility of hazardous reactions	3		
	Hazardous reactions will not occur u	under normal transport or storage conditio	ons. Decomposition may occur on exposure to condition	ns or materials listed below.
10.4	Conditions to avoid			
	Heat, moisture.			
10.5	Incompatible materials			
	Strong acids/alkalis, strong oxidizing	/reducing agents.		
10.6	Hazardous decomposition produc	ts		
	Strong acids/alkalis, strong oxidizing	/reducing agents.		
11.	TOXICOLOGICAL INFORMATIO	N		
11.1	Information on toxicological effec	its		
	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 – S	ingle Exposure		
	Classified based on available data.	• • • • • •		
	Specific Target Organ Toxicity – R	Repeated Exposure		
	Classified based on available data.			
	Aspiration Hazard			
	Classified based on available data. Symptoms / Routes of Exposure			
	Inhalation:	No known symptoms.		
	Ingestion: Skin:	No known symptoms.		
	Skin: Eyes:	No known symptoms. No known symptoms.		
	Eyes. Delayed/Immediate Effects:	No known symptoms.		
	Additional Information			
	Classified based on available data			
12.	ECOLOGICAL INFORMATION			
12.1	Toxicity			
	No data available.			
12.2	Percistance and degradability			

12.2 Persistence and degradability No data available.

40.0	
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
14.1	Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA. 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.
14.7	Additional Transport Information
	Does not meet the criteria for classification as hazardous for transport.
15.	REGULATORY INFORMATION
	This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]
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.

RD SYSTEMS a biotechne brand

•		THE SUBSTANCE/MIXTURE AND OF THE CO	MPANY/UNDER TAKING				
1	Product Identifiers						
	Product Name:	Detection Antibody					
2	Relevant identified us	es of the substance or mixture and uses advised	against				
	Identified Uses:	For research use only.					
.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:	1-612-656-4400			
		Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com			
			Email address:	info@bio-techne.com			
	Canada:	21 Canmotor Ave	Telephone:	1-855-668-8722			
		Toronto, ON M8Z 4E6	Fax:	902-827-6402			
			Email address:	Canada.inquiries@bio-techne.com			
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449			
	g	Abingdon Science Park	Fax:	44 (0)1235 533420			
		Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com			
	China	-					
	China:	1193 Changning Road	Telephone:	86-400-821-3475			
		Unit 1901, Raffles Changning Office	Fax:	76 (021) 52371001			
		Shanghai, China	Email address:	techsupport.cn@bio-techne.com			
Ļ.	Emergency Telephone Number						
	Emergency Telephone	, Number					
		y, spill, leak, fire, exposure, or accident call CHEMTI	REC day or night: Within U.S. 1	-800-262-8200 Worldwide 1-703-741-5500			
·	For chemical emergence						
	For chemical emergence	y, spill, leak, fire, exposure, or accident call CHEMTI 2-379-2956 or 800-343-7475 / Europe: +44(0)1235-5					
	For chemical emergence Bio-Techne Tel: US: 612	y, spill, leak, fire, exposure, or accident call CHEMTI 2-379-2956 or 800-343-7475 / Europe: +44(0)1235-5 CATION					
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1 2 3	For chemical emergence Bio-Techne Tel: US: 612 HAZARDS IDENTIFIC Classification of the s This substance does not Label Elements This product does not r Other Hazards - None	ey, spill, leak, fire, exposure, or accident call CHEMTI 2-379-2956 or 800-343-7475 / Europe: +44(0)1235-5 CATION ubstance or mixture of meet the classification criteria according to Regula need to be labeled in accordance with Regulation (EC	29449 / China 86-400-821-347 iion (EC) No 1272/2008 [GHS/	75 CLP] or 29 CFR 1910.1200 [OSHA].			
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4.3 Indication of immediate medical attention and special treatment needed

Evaporation Rate

Flammability (Solid, Gas)

No data available.

No data available.

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5.	FIRE-FIGHTING MEASURES					
5.1	Extinguishing Media					
	Suitable extinguishing media					
	Use water spray, alcohol-resistant foar	n, dry chemical or carbon dioxide.				
5.2	Special hazards arising from the su	bstance or mixture				
	In combustion, may emit toxic fumes.					
5.3	Precautions for fire-fighters					
	Wear suitable protective clothing to pre	event contact with skin and eyes and self-containe	d breathing apparatus.			
6.	ACCIDENTAL RELEASE MEASUR	PES				
6.1		uipment and emergency procedures				
		otective clothing - see section 8 of SDS. Evacuat	e personnel to safe areas. Ensure adequ	uate ventilation. Avoid breathing vapors, mist,		
	dust or gas.	,		5 1 1 1		
6.2	Environmental precautions					
	Do not let product enter drains.					
6.3	Methods and materials for containm					
	Cover spillage with suitable absorbent	material. Hold all material for appropriate disposa	I as described under section 13 of SDS.			
6.4	Reference to other sections					
	For required PPE see section 8. For di	sposal see section 13.				
7.	HANDLING AND STORAGE					
7.1	Precautions for safe handling					
		skin and clothing. Avoid the formation of dust ar	nd aerosols. Use in a well-ventilated are	ea. Keep away from sources of ignition. Avoid		
	prolonged or repeated exposure.	5				
7.2	Conditions for safe storage, including	ng any incompatibilities				
	Store in cool, well-ventilated area. Kee	p away from direct sunlight. Keep container tightly	v sealed until ready for use.			
7.3	Specific end uses					
	Not applicable.					
8.	EXPOSURE CONTROLS/PERSON	AL PROTECTION				
8.1	Control parameters					
	Components with workplace and co	ntrol parameters				
	Contains no substances with occupation	onal exposure limit values.				
8.2	Exposure controls					
	Appropriate Engineering Controls					
		Ensure all engineering measures described under	er section 7 of SDS are in place. Ensure I	aboratory is equipped with a safety shower and		
	eye wash station.					
8.3	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 PROP	PERTIES				
9.1	Information on basic physical and c	hemical 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.	Auto ignition Temperature	No data available.		
	Flash Point	No data available.	Decomposition Temperature	No data available.		

Viscosity

Explosive Properties

No data available.

No data available.

9.2 Other safety information No data available. 10. STABILITY AND REACTIVITY 10.1 Reactivity Stable under recommended transport or storage conditions. 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition 10.4 Conditions to avoid Heat, moisture.	
10.1 Reactivity Stable under recommended transport or storage conditions. 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition 10.4 Conditions to avoid	
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Hazardous reactions will not occur under normal transport or storage conditions. Decomposition 10.4 Conditions to avoid	
Hazardous reactions will not occur under normal transport or storage conditions. Decomposition 10.4 Conditions to avoid	
10.4 Conditions to avoid	n may occur on exposure to conditions or materials listed below.
Heat, moisture.	
10.5 Incompatible materials	
Strong acids/alkalis, strong oxidizing/reducing agents.	
10.6 Hazardous decomposition products	
Strong acids/alkalis, strong oxidizing/reducing agents.	
11. TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological 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.	
Classified based on available data.	
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 Exposure	
Inhalation: No known symptoms.	
Ingestion: No known symptoms.	
Skin: No known symptoms.	
Eyes: No known symptoms. Delayed/Immediate Effects: No known symptoms.	
Additional Information	
Classified based on available data	
12. ECOLOGICAL INFORMATION	
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				
14.1	Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA. 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.				
14.7	Additional Transport Information				
	Does not meet the criteria for classification as hazardous for transport.				
15.	REGULATORY INFORMATION				
	This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]				
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.

RD SYSTEMS a biotechne brand

	Product Identifiers						
	Product Name:	Standard (contains Proclin 300 Mixture = 0.00	5%)				
	Relevant identified us	ses of the substance or mixture and uses advised	against				
	Identified Uses:	For research use only.					
.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:	1-612-656-4400			
		Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com			
			Email address:	info@bio-techne.com			
	Canada:	21 Canmotor Ave	Telephone:	1-855-668-8722			
		Toronto, ON M8Z 4E6	Fax:	902-827-6402			
			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 Changning Office	Fax:	76 (021) 52371001			
		Shanghai, China	Email address:	techsupport.cn@bio-techne.com			
	Emergency Telephon	e Number					
	For chemical emergene	cy, spill, leak, fire, exposure, or accident call CHEMT	REC day or night: Within U.S.	I-800-262-8200 Worldwide 1-703-741-5500			
	Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475						
	HAZARDS IDENTIFI	CATION					
	Classification of the substance or mixture						
	Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].						
	Sensitization, skin - Ca	itegory 1					
	Label Elements						
	Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].						
	Pictogram(s):	()					
	Signal Word:	Warning					
	Hazard Statement(s):						
	H317	May cause an allergic skin reaction	on.				

Precautionary Statement(s):

P261	Avoid breathing dust/fumes/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P317	If skin irritation or rash occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Other Hazards - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Component	CAS No.	EC No.	Index No.	Classification	Concentration
Mixture of 5-Chloro-2-Methyl-4- Isothiazolin-3-One and 2-	55965-84-9	9114-418-6	613-167-00-5	H317	= 0.005%
Methyl-2H-Isothiazolin-3-One (3:1)					

4.1 Description of first aid measures

General Advice

Consult a doctor and show this safety data sheet.

If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

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. ACCIDENTAL 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.

7.3 Specific end uses

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace and 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.

8.3 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.

If risk assessment indicates necessary, use a suitable respirator.

PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties

9.1	Information on basic physical and	chemical properties				
	Appearance	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.		
	рH	No data available.	Solubility	No data available.		
	Melting / Freezing Point	No data available.	Partition Coefficient	No data available.		
	Boiling Point / Range	No data available.	Auto ignition 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 Flammability or	No data available.	Oxidizing Properties	No data available.		
	Explosive Limits		5 1			
9.2	Other safety information					
	No data available.					
10.	STABILITY AND REACTIVITY					
10.1	Reactivity					
	Stable under recommended transport	t or storage conditions.				
10.2	Chemical stability					
10.2	•	anditiona				
	Stable under recommended storage of	conditions.				
10.3	Possibility of hazardous reactions					
	Hazardous reactions will not occur un	nder normal transport or storage condition	s. Decomposition may occur on exposure to condit	ions or materials listed below.		
10.4	Conditions to avoid					
	Heat, moisture.					
10.5	Incompatible materials					
	-	reducing agents.				
10.6	Strong acids/alkalis, strong oxidizing/reducing agents.					
	Hazardous decomposition products Strong acids/alkalis, strong oxidizing/reducing agents.					
		reducing agents.				
11.	TOXICOLOGICAL INFORMATION					
11.1	Information on toxicological effects					
	Acute Toxicity					
	-					
	Classified based on available data. Skin Corrosion/Irritation					
	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 Exposure					
	Inhalation:	There may be irritation of the throat with	a feeling of tightness in the chest.			
	Ingestion:	There may be irritation of the throat.				
	Skin:	There may be mild irritation at the site of	f contact.			
	Eyes:	There may be irritation and redness.				
	Delayed/Immediate Effects:	No known symptoms.				

Additional Information

Classified based on available data

12. 12.1	ECOLOGICAL INFORMATION Toxicity
12.1	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.
14.7	Additional Transport Information
	Does not meet the criteria for classification as hazardous for transport.
15.	REGULATORY INFORMATION
	This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]
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.

RD SYSTEMS a biotechne brand

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers

Product Name: Streptavidin-HRP (contains Proclin 300 Mixture = 0.005%)

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

Identified Uses: For 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:	1-612-656-4400
	Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	21 Canmotor Ave	Telephone:	1-855-668-8722
	Toronto, ON M8Z 4E6	Fax:	902-827-6402
		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 Changning Office	Fax:	76 (021) 52371001
	Shanghai, China	Email address:	techsupport.cn@bio-techne.com

1.4 Emergency Telephone Number

For chemical emergency, spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within U.S. 1-800-262-8200 Worldwide 1-703-741-5500 Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]. Sensitization, skin - Category 1

2.2 Label Elements

Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]. Pictogram(s):

Signal Word:	Warning
Hazard Statement(s):	
H317	May cause an allergic skin reaction.
Precautionary Statement(s):	
P261	Avoid breathing dust/fumes/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P317	If skin irritation or rash occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an approved waste disposal plant.
Other Hazards - None	

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

2.3

Not applicable.

3.2 Mixtures

Component

Component			CAS No.	EC No.	Index No.	Classification	Concentration
Mixture of 5-Chloro-2-Methyl-4-	Isothiazolin-3-One a	and 2-	55965-84-9	9114-418-6	613-167-00-5	H317	=0.005%
Methyl-2H-Isothiazolin-3-One (3:1)							

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Consult a doctor and show this safety data sheet.

If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

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. ACCIDENTAL 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.

7.3 Specific end uses

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace and 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.

8.3 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.

	Deenington, Destantion							
	Respiratory Protection							
	If risk assessment indicates necessar	y, use a suitable respirator.						
9.	PHYSICAL AND CHEMICAL PRO	PERTIES						
ə.1	Information on basic physical and chemical properties							
	Appearance	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.	Auto ignition 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 Flammability or Explosive Limits	No data available.	Oxidizing Properties	No data available.				
).2	Other safety information							
	No data available.							
0.	STABILITY AND REACTIVITY							
10.1	Reactivity							
	Stable under recommended transport	or storage conditions.						
0.2	Chemical stability							
	Stable under recommended storage of	conditions.						
0.3	Possibility of hazardous reactions							
	Hazardous reactions will not occur un	der normal transport or storage conditi	ons. Decomposition may occur on exposure to condi	tions 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 products							
	Strong acids/alkalis, strong oxidizing/	reducing agents.						
1.	TOXICOLOGICAL INFORMATION	1						
1.1	Information on toxicological effect	S						
	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.							
	Gransbilled based on available data.							
	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 – Re	epeated Exposure						

Classified based on available data.

Aspiration Hazard

Classified based on available data.

Symptoms / Routes of Exposure

Inhalation:	There may be irritation of the throat with a feeling 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

12.	
12.1	Toxicity No data available.
12.2	Persistence and degradability
12.2	No data available.
12.3	Bio accumulative potential
12.5	No data available.
12.4	
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
14.1	Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA. 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.
14.7	Additional Transport Information
	Does not meet the criteria for classification as hazardous for transport.
15.	REGULATORY INFORMATION
	This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]
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

OTHER INFORMATION 16.

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 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.