

1-800-343-7475

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product Identifiers Product Name: Rat beta-NGF DuoSet ELISA, 15 Plate

	Catalog Number:	DY556	
	Components:	Capture Antibody	
		Detection Antibody	
		Standard (contains Proclin 300 Mixture = .005%)	
		Streptavidin-HRP (contains Proclin 300 Mixture =.005%)	)
1.2	Relevant identified uses o	f the substance or mixture and uses advised against	
	Identified Uses:	For research use only.	
1.3	Details of the supplier of t	he safety data sheet	
	Company:	R&D Systems, Inc. a Bio-Techne Brand 614	Telephone:
		McKinley Place NE	Fax:
		Minneapolis, MN 55413, USA	Internet:

	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
United Kingdom:	19 Barton Lane Abingdon Science Park	Telephone: Fax:	44 (0)1235 529449 44 (0)1235 533420
United Kingdom:			
United Kingdom: China:	Abingdon Science Park	Fax:	44 (0)1235 533420
Ū.	Abingdon Science Park Abingdon, OX14 3NB	Fax: Email address:	44 (0)1235 533420 info.emea@bio-techne.com
Ū.	Abingdon Science Park Abingdon, OX14 3NB 1193 Changning Road	Fax: Email address: Telephone:	44 (0)1235 533420 info.emea@bio-techne.com 86-400-821-3475

#### 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
	, i i i i i i i i i i i i i i i i i i i	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
2.	For chemical emergence Bio-Techne Tel: US: 61 HAZARDS IDENTIFIC Classification of the s	cy, spill, leak, fire, exposure, or accident call CHEMTF I2-379-2956 or 800-343-7475 / Europe: +44(0)1235- CATION Substance or mixture	529449 / China 86-400-821-34	75
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.1 .2 .3	For chemical emergence Bio-Techne Tel: US: 61 HAZARDS IDENTIFIC Classification of the s This substance does not Label Elements This product does not r Other Hazards - None	cy, spill, leak, fire, exposure, or accident call CHEMTF 12-379-2956 or 800-343-7475 / Europe: +44(0)1235- CATION Substance or mixture of meet the classification criteria according to Regulati	529449 / China 86-400-821-34	75 LP] or 29 CFR 1910.1200 [OSHA].
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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					
	-	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					
		nsure all engineering measures described unde	er section 7 of SDS are in place. E	nsure 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
ŀ		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 1 2	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 COMPOSITION/INFC Substances Not applicable. Mixtures This product does not c FIRST AID MEASUR Description of first aid General Advice Consult a doctor and st If Inhaled Remove to fresh air and In Case of Skin Conta Wash skin with soap ar In Case of Eye Contac	ey, spill, leak, fire, exposure, or accident call CHEMTH 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 (EG DRMATION ON INGREDIENTS contain hazardous chemicals at concentrations of 1% ES I measures now this safety data sheet. d monitor breathing. ct id water. If irritation occurs, consult a doctor.	29449 / China 86-400-821-347 iion (EC) No 1272/2008 [GHS// C) No 1272/2008 [GHS/CLP] or or greater. This product is not	75 CLP] or 29 CFR 1910.1200 [OSHA]. r 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.	<b>,</b>		<b>5 1 1 1</b>
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 glo handling.	wes (minimum requirement use standard BS EN 3	374:2003). Gloves should be inspected be	efore use. Wash and dry hands thoroughly after
	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	
<ul> <li>Stable under recommended transport or storage conditions.</li> <li>Chemical stability         <ul> <li>Stable under recommended storage conditions.</li> </ul> </li> <li>Possibility of hazardous reactions         <ul> <li>Hazardous reactions will not occur under normal transport or storage conditions. Decomposition</li> </ul> </li> <li>Conditions to avoid</li> </ul>	
<ul> <li>10.2 Chemical stability Stable under recommended storage conditions.</li> <li>10.3 Possibility of hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition</li> <li>10.4 Conditions to avoid</li> </ul>	
<ul> <li>Stable under recommended storage conditions.</li> <li>Possibility of hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition</li> <li>Conditions to avoid</li> </ul>	
<ul> <li>Stable under recommended storage conditions.</li> <li>Possibility of hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition</li> <li>Conditions to avoid</li> </ul>	
Hazardous reactions will not occur under normal transport or storage conditions. Decomposition <b>10.4 Conditions to avoid</b>	
Hazardous reactions will not occur under normal transport or storage conditions. Decomposition <b>10.4 Conditions to avoid</b>	
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.		
Details of the supplie	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
	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: 61	2-379-2956 or 800-343-7475 / Europe: +44(0)1235-5	29449 / China 86-400-821-347	75
HAZARDS IDENTIFI	CATION		
Classification of the	substance or mixture		
Classification accordin	g to Regulation (EC) No 1272/2008 [GHS/CLP] or 29	CFR 1910.1200 [OSHA].	
Sensitization, skin - Ca	itegory 1		
Label Elements			
Labeling according to I	Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFF	R 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					
	Strong acids/alkalis, strong oxidizing/reducing agents.					
10.6	Hazardous decomposition products					
	Strong acids/alkalis, strong oxidizing/reducing agents.					
		reducing agents.				
11.	TOXICOLOGICAL INFORMATION					
11.1	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.					
	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	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below. 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.							
	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 – 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
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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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End of safety data sheet.