RD SYSTEMS a biotechne brand

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

1.1 Product Identifiers

	r roduct lacitations			
	Product Name: Catalog Number:	Human alpha-Defensin 1 DuoSet ELISA DY8198-05		
	Components:	Capture Antibody Detection Antibody Standard (contains Proclin 300 Mixture = .00	05%)	
		Streptavidin-HRP (contains Proclin 300 Mixto	ure = .005%)	
1.2	Relevant identified use	s of the substance or mixture and uses advised	d against	
	Identified Uses:	For Research Use Only		
1.3	Details of the supplier of	of the safety data sheet		
	Company:	R&D Systems, Inc. a Bio-Techne Brand 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone: Fax: Internet: Email address:	1-800-343-7475 1-612-656-4400 www.rndsystems.com info@bio-techne.com
	Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone: Fax: Email address:	1-855-668-8722 902-827-6402 Canada.inquiries@bio-techne.com
	United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone: Fax: Email address:	44 (0)1235 529449 44 (0)1235 533420 info.emea@bio-techne.com
	China:	1193 Changning Road Unit 1901, Raffles Changning Office Shanghai, China	Telephone: Fax: Email address:	86400-821-3475 76 (021)52371001 techsuppotcn@biotechne.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.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE CO	MPANY/UNDERTAKING	i de la constanción d		
1.1	Product Identifiers					
	Product Name:	Capture Antibody				
.2	Relevant identified us	ses of the substance or mixture and uses advise	ed against			
	Identified Uses:	For research use only.				
.3	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: Email address:	www.rndsystems.com info@bio-techne.com		
	Canada:	21 Canmotor Avenue	Telephone:	1-855-668-8722		
	Ganada.	Toronto, Ontario M8Z4E6	Fax:	902-827-6402		
		Canada	Email address:	Canada.inquiries@bio-techne.com		
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449		
	office rangeoffic	Abingdon Science Park	Fax:	44 (0)1235 533420		
		Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com		
	China:	1193 Changning Road	Telephone:	86-400-821-3475		
		Unit 1901, Raffles City Changning Office	Fax:	76 (021) 52371001		
		Shanghai	Email address	techsupport.cn@bio-techne.com		
.4	Emergency Telephone	Number				
	For chemical emergenc	y, spill, leak, fire, exposure, or accident call CHEN	ITREC day or night: Within	u U.S. 1-800-262-8200 Worldwide 1-703-741-5500		
	Bio-Techne Tel: US: 612	2-379-2956 or 800-343-7475 / Europe: +44(0)123	5-529449 / China 86-400-8	321-3475		
	HAZARDS IDENTIFIC	ATION				
.1	Classification of the s					
		t meet the classification criteria according to Regul	lation (EC) No 1272/2008 [
.2	Label Elements					
		eed to be labelled in accordance with Regulation (E	EC) No 1272/2008 [GHS/C	LP1 or 29 CER 1910 1200 [OSHA]		
.3	Other Hazards - None					
	COMPOSITION//NEO					
•		RMATION ON INGREDIENTS				
.1	Substances					
	Not applicable.					
3.2	Mixtures	ontain hazardous chemicals at concentrations of 19	% or greater. This product i	s not known to contain carcinogens at concentrations of 0.1% or greater.		
	FIRST AID MEASURE	ES .				
l.1	Description of first aid	measures				
	General Advice					
	Consult a doctor and sh	ow this safety data sheet.				
	If Inhaled					
	Remove to fresh air and	-				
	In Case of Skin Contac					
	Wash skin with soap and water. If irritation occurs, consult a doctor.					
	In Case of Eye Contact Flush with water for at le	t east 15 minutes. If irritation occurs, consult a doctor.				
	If Swallowed					
_		Consult a doctor if you feel unwell.				
.2		oms and effects, both acute and delayed				
		edge, the chemical, physical and toxicological prop		bughly investigated.		
.3		e medical attention and special treatment need				
	Show this safety data sh	neet to the doctor in attendance. Immediate medica	al attention is required.	2 of 19		
				2 of 19		

5.1 Extinguishing Media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

5.3 Precautions for fire-fighters

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

6. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not let product enter drains.

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

6.3

Not applicable.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate Engineering Controls

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

Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

Skin Protection

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

Body Protection

Wear appropriate protective clothing.

Respiratory Protection

If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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

ontrol parameters omponents with workplac

	Upper / Lower Flammat	-					
	Explosive Limits	No data available.	Oxidizing Properties	No data available.			
9.2	Other safety information No data available.	n					
10.	STABILITY AND READ	СТІVІТҮ					
10.1	Reactivity						
	Stable under recommend	ded transport or storage conditions.					
10.2	Chemical stability						
	Stable under recommend	led storage conditions.					
10.3	Possibility of hazardous	s reactions					
	Hazardous reactions will	not occur under normal transport or storage cond	ditions. Decomposition may occur on exposure to condition	ons or materials listed below.			
10.4	Conditions to avoid						
	Heat, moisture.						
10.5	Incompatible materials						
	Strong acids/alkalis, stror	ng oxidizing/reducing agents.					
10.6	Hazardous decomposit	ion products					
	Strong acids/alkalis, stror	ng oxidizing/reducing agents.					
11.	TOXICOLOGICAL INF	ORMATION					
11.1	Information on toxicolo	ogical effects					
	Acute Toxicity						
	Classified based on avail	lable data.					
	Skin Corrosion / Irritati	on					
	Classified based on avail	lable data.					
	Serious Eye Damage / I	Irritation					
	Classified based on avail	lable data.					
	Respiratory or Skin Ser	nsitization					
	Classified based on avail	lable data.					
	Germ Cell Mutagenicity	V					
	Classified based on avail	lable 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 avail	lable data.					
	Symptoms / Routes of I	Exposure					
	Inhalation:	No known symptoms.					
	Ingestion:	No known symptoms.					
	Skin:	No known symptoms.					
	Eyes:	No known symptoms.					
	Delayed/Immediate Effe	ects: No known symptoms.					
	Additional Information						
	Classified based on avail	lable data.					
12							

12. ECOLOGICAL INFORMATION

Upper / Lower Flammability or

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

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

Contaminated Packaging

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

14. TRANSPORT INFORMATION

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

14.1 UN-Number

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

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

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

14.4 Packaging group

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

14.5 Environmental hazards

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

14.6 Special precautions for users

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

Additional Transport Information

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

15. REGULATORY INFORMATION

This safety 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

Copyright © 2024 R&D Systems, Inc. a Bio-Techne Brand

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.



1.	IDENTIFICATION OF T	HE SUBSTANCE/MIXTURE AND OF THE COM	IPANY/UNDERTAKING		
1.1	Product Identifiers				
	Product Name:	Detection Antibody			
1.2	Relevant identified use	es of the substance or mixture and uses advise	dagainst		
	Identified Uses:	For research use only.	9		
1.3		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 Avenue	Telephone:	1-855-668-8722	
		Toronto, Ontario M8Z4E6	Fax:	902-827-6402	
		Canada	Email address:	Canada.inquiries@bio-techne.com	
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449	
		Abingdon Science Park	Fax:	44 (0)1235 533420	
		Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com	
	China:	1102 Changeing Bood	Telephone:	86-400-821-3475	
	China.	1193 Changning Road Unit 1901, Raffles City Changning Office	Fax:	76 (021) 52371001	
		Shanghai	Email address	techsupport.cn@bio-techne.com	
1.4	Emergency Telephone	-			
	For chemical emergency	, spill, leak, fire, exposure, or accident call CHEM	TREC day or night: Within	U.S. 1-800-262-8200 Worldwide 1-703-741-5500	
	Bio-Techne Tel: US: 612	2-379-2956 or 800-343-7475 / Europe: +44(0)123	5-529449 / China 86-400-8	21-3475	
2.	HAZARDS IDENTIFICA				
2.1	Classification of the sub				
		meet the classification criteria according to Regula	tion (EC) No 1272/2008 [G]	HS/CL PI or 29 CER 1910 1200 [OSHA]	
2.2	Label Elements				
		ed to be labelled in accordance with Regulation (E0	C) No 1272/2008 [GHS/CLE	Pl or 29 CER 1910 1200 [OSHA]	
2.3	Other Hazards - None		5) 110 1212/2000 [0110/021		
3.	COMPOSITION/INFOR	RMATION ON INGREDIENTS			
3.1	Substances				
0.1	Not applicable.				
3.2	Mixtures				
5.2		ntain hazardous chemicals at concentrations of 1%	or greater. This product is	not known to contain carcinogens at concentrations of 0.1% or gr	reater.
4.	FIRST AID MEASURE	s			
4.1	Description of first aid n				
	General Advice				
	Consult a doctor and sho	w this safety data sheet.			
	If Inhaled				
	Remove to fresh air and	monitor breathing.			
	In Case of Skin Contact	t i i i i i i i i i i i i i i i i i i i			
	Wash skin with soap and	water. If irritation occurs, consult a doctor.			
	In Case of Eye Contact				
		ast 15 minutes. If irritation occurs, consult a doctor.			
	If Swallowed				
4.2		Consult a doctor if you feel unwell.			
7.4		ms and effects, both acute and delayed	arties have not been the	ably investigated	
4.3		edge, the chemical, physical and toxicological prope medical attention and special treatment needed		gring investigated.	
4.5		eet to the doctor in attendance. Immediate medical		6	of 19
	Chew and Salety data She				1 of 4

5.1 Extinguishing Media

5.2

6.3

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

5.3 Precautions for fire-fighters

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

6. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

Specific end uses

7.3

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate Engineering Controls

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

Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

Skin Protection

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

Body Protection

Wear appropriate protective clothing.

Respiratory Protection

If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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

mponents with workplace con ntains no substances with occu

	Upper / Lower Flammability o Explosive Limits	r No data available.	Oxidizing Properties	No data available.			
9.2	Other safety information						
	No data available.						
10.	STABILITY AND REACTIVIT	ΓY					
10.1	Reactivity						
	Stable under recommended tra	nsport or storage conditions.					
10.2	Chemical stability						
	Stable under recommended sto	rage conditions.					
10.3	Possibility of hazardous react	ions					
	Hazardous reactions will not oc	cur under normal transport or storage conditions	s. Decomposition may occur on exposure to condition	ons or materials listed below.			
10.4	Conditions to avoid						
	Heat, moisture.						
10.5	Incompatible materials						
	Strong acids/alkalis, strong oxid	lizing/reducing agents.					
10.6	Hazardous decomposition pro	oducts					
	Strong acids/alkalis, strong oxid	lizing/reducing agents.					
11.	TOXICOLOGICAL INFORM	ATION					
11.1	Information on toxicological e	ffects					
	Acute Toxicity						
	Classified based on available d	ata.					
	Skin Corrosion / Irritation						
	Classified based on available d	ata.					
	Serious Eye Damage / Irritati	ion					
	Classified based on available d	ata.					
	Respiratory or Skin Sensitiza	tion					
	Classified based on available d	ata.					
	Germ Cell Mutagenicity						
	Classified based on available d	ata.					
	Carcinogenicity						
	Classified based on available data.						
	Reproductive Toxicity						
	Classified based on available data.						
	Specific Target Organ Toxicity - Single Exposure						
	Classified based on available d	ata.					
	Specific Target Organ Toxicit	y - Repeated Exposure					
	Classified based on available d	ata.					
	Aspiration Hazard						
	Classified based on available d	ata.					
	Symptoms / Routes of Expos	ure					
	Inhalation: No	o known symptoms.					
	Ingestion: N	o known symptoms.					
	Skin: N	o known symptoms.					
	Eyes: No	o known symptoms.					
	Delayed/Immediate Effects: No	o known symptoms.					
	Additional Information						
	Classified based on available d	ata.					

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

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

14.1 UN-Number

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

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

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

14.4 Packaging group

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

14.5 Environmental hazards

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

14.6 Special precautions for users

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

Additional Transport Information

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

15. REGULATORY INFORMATION

This safety 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

Copyright © 2024 R&D Systems, Inc. a Bio-Techne Brand

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	E SUBSTANCE/MIXTURE AND OF THE COMP	PANY/UNDERTAKING	
1.1	Product Identifiers			
	Product Name:	Standard (contains Proclin 300 Mixture = 0.005	%)	
1.2	Relevant identified uses of	of the substance or mixture and uses advised	against	
	Identified Uses:	For Research Use Only		
1.3	Details of the supplier of the	ne 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.mdsystems.com
			Email address:	info@bio-techne.com
	Canada:	21 Canmotor Ave	Telephone:	1-855-668-8722
		Toronto, ON	Fax:	902-827-6402
		M8Z 4E6 Canada	Email address:	Canada.inquiries@bio-techne.com
	United Kingdom:	19 Barton Lane Abingdon	Telephone:	44 (0)1235 529449
	-	Science Park Abingdon,	Fax:	44 (0)1235 533420
		OX14 3NB	Email address:	info.emea@bio-techne.com
	China:	1193 Changning Road	Telephone:	86-400-821-3475
		Unit 1901, Raffles Changning Office Shanghai , China	Fax: Email address:	76 (021)52371001 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

HAZARDS IDENTIFICATION 2. Classification of the substance or mixture 2.1 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/fume/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. 23 Other Hazards - None

3.	COMPOSITION/INFORMATION	ON INGREDIENTS				
3.1	Substances					
	Not applicable.					
3.2	Mixtures					
	Component	CAS No.	ECNo.	Index No.	Classification	Conc.
	Mixture of 5-Chloro-2-Methyl-4- Isothiazolin-3-One and 2-Methyl- 2H-Isothiazolin-3-one(3:1)	55965-84-9	9114-418-6	613-167-00-5	H317	=0.005%
	FIRST AID MEASURES					
.1	Description of first aid measures					
	General Advice Consult a doctor and show this safe	ty data sheet.				
	If Inhaled					
	Remove to fresh air and monitor bre In Case of Skin Contact	athing. If breathing bec	omes difficult, give oxygen	. If breathing stops, give artifi	cial respiration. Consult a doctor.	
		s amounts of soap and	water for at least 15 minut	es. Remove contaminated c	lothing and shoes and wash before reu	se. Consult a doctor.
	In Case of Eye Contact Flush with copious amounts of wate	r for at least 15 minute	s. Consult a doctor.			
	If Swallowed Rinse mouth with water. Do not indu	ice vomiting unless dire	ected to do so by medical p	ersonnel. Never give anythir	ng by mouth to an unconscious person.	Consult a doctor.
2	Most important symptoms and effe	ects, both acute and d	elayed			
	To the best of our knowledge, the ch	emical, physical and to	xicological properties have	not been thoroughly investig	ated.	
3	Indication of immediate medical at	tention and special tre	atment needed			
	Show this safety data sheet to the d	octor in attendance. Im	mediate medical attention	is required.		
	FIRE-FIGHTING MEASURES					
.1	Extinguishing Media					
	Suitable extinguishing media					
	Use water spray, alcohol-resistant fo	oam, dry chemical or ca	arbon dioxide.			
2	Special hazards arising from the se	ubstance or mixture				
	In combustion, may emit toxic fume	S.				
.3	Precautions for fire-fighters					
	Wear suitable protective clothing to	prevent contact with sk	in and eyes and self-contai	ned breathing apparatus.		
	ACCIDENTIAL RELEASE MEASU	JRES				
6.1	Personal precautions, protective e	quipment and emerge	ncy procedures			
		protective clothing - se	ee section 8 of SDS. Evac	uate personnel to safe area	s. Ensure adequate ventilation. Avoid I	preathing vapors, mist, dust
.2	or gas. Environmental precautions					
-	Do not let product enter drains.					
3	Methods and materials for contain	ment and cleaning up				
.0	Cover spillage with suitable absorbe		aterial for appropriate disr	osal as described under sec	tion 13 of SDS	
4	Reference to other sections					
	For required PPE see section 8. For	r disposal see section 1	3.			
	HANDLING AND STORAGE					
	HANDLING AND STORAGE Precautions for safe handling					
	Precautions for safe handling	, skin and clothing. Av	oid the formation of dust a	ind aerosols. Use in a well-v	rentilated area. Keep away from source	es of ignition. Avoid prolonge
1	Precautions for safe handling Avoid inhalation, contact with eyes	-		and aerosols. Use in a well-v	ventilated area. Keep away from source	es of ignition. Avoid prolonge
1	Precautions for safe handling Avoid inhalation, contact with eyes or repeated exposure.	ing any incompatibilitie	95			es of ignition. Avoid prolonge
.1 .2	Precautions for safe handling Avoid inhalation, contact with eyes or repeated exposure. Conditions for safe storage, includi	ing any incompatibilitie	95			es of ignition. Avoid prolong
.1 .2 .3	Precautions for safe handling Avoid inhalation, contact with eyes or repeated exposure. Conditions for safe storage, includi Store in cool, well-ventilated area. K	ing any incompatibilitie	95			es of ignition. Avoid prolonge
.1 .2	 Precautions for safe handling Avoid inhalation, contact with eyes or repeated exposure. Conditions for safe storage, includit Store in cool, well-ventilated area. K Specific end uses 	ing any incompatibilitie	95			es of ignition. Avoid prolonge
1 2 3	 Precautions for safe handling Avoid inhalation, contact with eyes or repeated exposure. Conditions for safe storage, include Store in cool, well-ventilated area. K Specific end uses Not applicable. 	ing any incompatibilitie	95			es of ignition. Avoid prolonge

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate Engineering Controls

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

Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

Skin Protection

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

Body Protection

Wear appropriate protective clothing.

Respiratory Protection

If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical	properties		
	Appearance	Lyophilized white powder or clear liquid	Vapor Pressure	No data available.
	Odor	Little to none	Vapor Density	No data available.
	Odor Threshold	No data available.	Relative Density	No data available.
	рН	No data available.	Solubility(ies)	No data available.
	Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
	Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
	Flash Point	No data available.	Decomposition Temperature	No data available.
	Evaporation Rate	No data available.	Viscosity	No data available.
	Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.
	Upper / Lower 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 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 may occur on exposure to conditions 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.

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

Carcinogenicity

Classified based on available data

Reproductive Toxicity

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 contact.
Eyes:	There may be irritation and redness.
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	Bioaccumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects
	No data available.
13.	DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods
	Product
	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
	Contaminated Packaging
	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.
14.	TRANSPORT INFORMATION
	Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
14.1	UN-Number
	Does not meet the criteria for classification as hazardous for transport.
14.2	UN proper shipping name
	Does not meet the criteria for classification as hazardous for transport.
14.3	Transport hazard class(es)
	Does not meet the criteria for classification as hazardous for transport.
14.4	Packaging group
	Does not meet the criteria for classification as hazardous for transport.
14.5	Environmental hazards
	Does not meet the criteria for classification as hazardous for transport.
14.6	Special precautions for users
	Does not meet the criteria for classification as hazardous for transport.
	Additional Transport Information
	Does not meet the criteria for classification as hazardous for transport.
15.	REGULATORY INFORMATION
	This safety 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. 13 of 19

California Proposition 65 : Proclin 300 Mixture

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 COMP	PANY/UNDERTAKING	
1.1	Product Identifiers			
	Product Name:	Streptavidin-HRP (contains Proclin 300 Mixtur	e = .005%)	
1.2	Relevant identified uses of	f the substance or mixture and uses advised	against	
	Identified Uses:	For Research Use Only		
1.3	Details of the supplier of the	ne 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.mdsystems.com
			Email address:	info@bio-techne.com
	Canada:	21 Canmotor Ave	Telephone:	1-855-668-8722
		Toronto, ON	Fax:	902-827-6402
		M8Z 4E6 Canada	Email address:	Canada.inquiries@bio-techne.com
	United Kingdom:	19 Barton Lane Abingdon	Telephone:	44 (0)1235 529449
		Science Park Abingdon,	Fax:	44 (0)1235 533420
		OX14 3NB	Email address:	info.emea@bio-techne.com
			Talahan	00,400,004,0475
	China:	1193 Changning Road Unit 1901, Raffles Changning Office	Telephone: Fax:	86-400-821-3475 76 (021)52371001
		Shanghai , China	Fax: 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

HAZARDS IDENTIFICATION 2. Classification of the substance or mixture 2.1 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/fume/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. 23 Other Hazards - None

.1		ON INGREDIENTS					
1	Substances Not applicable.						
2	Mixtures						
2	Component	CAS No.	ECNo.	Index No.	Classification	Conc.	
		CASINO.	LONO.	index No.	Classification	conc.	
	Mixture of 5-Chloro-2-Methyl-4- lsothiazolin-3-One and 2-Methyl- 2H-Isothiazolin-3-one(3:1)	55965-84-9	9114-418-6	613-167-00-5	H317	=0.005%	
	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.						
2	Most important symptoms and eff	ects, both acute and	delayed				
	To the best of our knowledge, the ch			e not been thoroughly investig	ated.		
3	Indication of immediate medical at	tention and special tr	eatment needed				
	Show this safety data sheet to the d	loctor in attendance. In	nmediate medical attention	is required.			
	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 s						
	In combustion, may emit toxic fume	S.					
3	Precautions for fire-fighters Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.						
	Weal suitable protective clothing to	prevent contact with sr		ined breating apparatus.			
	ACCIDENTIAL RELEASE MEASU	JRES					
.1	Personal precautions, protective e	quipment and emerge	ency procedures				
	Do not take action without suitable or gas.	protective clothing - s	ee section 8 of SDS. Eva	cuate personnel to safe area	s. Ensure adequate ventilation. Avoid	d breathing vapors, mist, dust	
2	Environmental precautions						
-	Do not let product enter drains.						
3	Methods and materials for contain	ment and cleaning up					
	Cover spillage with suitable absorb			oosal as described under sec	tion 13 of SDS.		
.4	Reference to other sections						
	For required PPE see section 8. Fo	r disposal see section	13.				
	HANDLING AND STORAGE						
1	Precautions for safe handling						
	or repeated exposure.			and aerosols. Use in a well-v	entilated area. Keep away from sour	rces of ignition. Avoid prolonge	
2	Conditions for safe storage, includ						
_	Store in cool, well-ventilated area. K	eep away from direct s	sunlight. Keep container tig	htly sealed until ready for use			
3	Specific end uses						
	Not applicable.						
	EXPOSURE CONTROLS/PERSO	NAL PROTECTION					
1	Control parameters						
	Components with workplace cont	rol parameters				16 of 19	
	Contains no substances with occur	ational exposure limit	values				

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate Engineering Controls

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

Personal Protective Equipment

Eye / Face Protection

Use appropriate safety glasses.

Skin Protection

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

Body Protection

Wear appropriate protective clothing.

Respiratory Protection

If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical	properties		
	Appearance	Lyophilized white powder or clear liquid	Vapor Pressure	No data available.
	Odor	Little to none	Vapor Density	No data available.
	Odor Threshold	No data available.	Relative Density	No data available.
	рН	No data available.	Solubility(ies)	No data available.
	Melting / Freezing Point	No data available.	Partition Coefficient	No data available.
	Boiling Point / Range	No data available.	Autoignition Temperature	No data available.
	Flash Point	No data available.	Decomposition Temperature	No data available.
	Evaporation Rate	No data available.	Viscosity	No data available.
	Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.
	Upper / Lower 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 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 may occur on exposure to conditions 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.

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

Carcinogenicity

Classified based on available data

Reproductive Toxicity

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 contact.
Eyes:	There may be irritation and redness.
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	Bioaccumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects
	No data available.
13.	DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods
	Product
	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
	Contaminated Packaging
	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.
14.	TRANSPORT INFORMATION
	Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
14.1	UN-Number
	Does not meet the criteria for classification as hazardous for transport.
14.2	UN proper shipping name
	Does not meet the criteria for classification as hazardous for transport.
14.3	Transport hazard class(es)
	Does not meet the criteria for classification as hazardous for transport.
14.4	Packaging group
	Does not meet the criteria for classification as hazardous for transport.
14.5	Environmental hazards
	Does not meet the criteria for classification as hazardous for transport.
14.6	Special precautions for users
	Does not meet the criteria for classification as hazardous for transport.
	Additional Transport Information
	Does not meet the criteria for classification as hazardous for transport.
15.	REGULATORY INFORMATION
	This safety 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. 18 of 19

California Proposition 65 : Proclin 300 Mixture

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.