

1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1	Product Identifiers					
	Product Name:	Human TGF-beta 3 DuoSet ELISA, 15 Plate				
	Catalog Number:	DY243				
	Components:	Capture Antibody				
		Detection Antibody				
		Standard (contains Proclin 300 Mixture = .005%)				
		Streptavidin-HRP (contains Proclin 300 Mixture = .0	05%)			
1.2	Relevant identified uses of	of the substance or mixture and uses advised again	nst			
	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

See additional safety data sheets.



1.1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING Product Identifiers					
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#### 4.2 Most important symptoms and effects, both acute and delayed

Odor Threshold

рH

No data available.

No data available.

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. EXPOSURE CONTROLS/PERSONAL PROTECTION 8. 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. **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 Lyophilized white powder or clear liquid Vapor Pressure No data available. Appearance Odor Little to none. Vapor Density No data available.

**Relative Density** 

Solubility

No data available.

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.					
0.	STABILITY AND REACTIVITY					
0.1	Reactivity					
	Stable under recommended transpor	t or storage conditions.				
0.2	Chemical stability					
	Stable under recommended storage conditions.					
0.3	Possibility of hazardous reactions					
	Hazardous reactions will not occur ur	nder normal transport or storage conditio	ns. Decomposition may occur on exposure to condit	ions or materials listed below.		
10.4	Conditions to avoid					
	Heat, moisture.					
0.5	Incompatible materials					
	Strong acids/alkalis, strong oxidizing/	reducing agents.				
10.6	Hazardous decomposition produc	ts				
	Strong acids/alkalis, strong oxidizing/	reducing agents.				
1.	TOXICOLOGICAL INFORMATION	N				
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.					
		ingle Exposure				
	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					
2.1	Toxicity					
	-					

No data available.

## 12.2 Persistence and degradability

No data available.

12.3	Bio accumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects
	No data available.
13.	DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods
	Product
	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
	Contaminated Packaging
	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.
14.	TRANSPORT INFORMATION
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**

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. End of safety data sheet.



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	Identified Uses:	For research use only.				
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		Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com		
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		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		
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1.4 2. 2.1 2.2 2.3 3. 3.1	For chemical emergence Bio-Techne Tel: US: 61 HAZARDS IDENTIFI Classification of the se This substance does not Label Elements This product does not Other Hazards - None COMPOSITION/INFC Substances	cy, spill, leak, fire, exposure, or accident call CHEMTI 2-379-2956 or 800-343-7475 / Europe: +44(0)1235-5 CATION substance or mixture of meet the classification criteria according to Regula need to be labeled in accordance with Regulation (EG	29449 / China 86-400-821-347	75 CLP] or 29 CFR 1910.1200 [OSHA].		
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2. 2.1 2.2 2.3 3. 3.1 3.2 4.	For chemical emergend Bio-Techne Tel: US: 61 HAZARDS IDENTIFI Classification of the s This substance does not Label Elements This product does not no Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and s If Inhaled	cy, spill, leak, fire, exposure, or accident call CHEMTI 2-379-2956 or 800-343-7475 / Europe: +44(0)1235-5 CATION substance or mixture of meet the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula present in the classification criteria according to Regula pre	29449 / China 86-400-821-347 tion (EC) No 1272/2008 [GHS/ C) No 1272/2008 [GHS/CLP] or	75 CLP] or 29 CFR 1910.1200 [OSHA]. r 29 CFR 1910.1200 [OSHA].		
2. 2.1 2.2 2.3 3. 3.1 3.2 4.	For chemical emergence Bio-Techne Tel: US: 61 HAZARDS IDENTIFI Classification of the s This substance does not Label Elements This product does not Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first air General Advice Consult a doctor and s If Inhaled Remove to fresh air an In Case of Skin Conta	cy, spill, leak, fire, exposure, or accident call CHEMTI 2-379-2956 or 800-343-7475 / Europe: +44(0)1235-5 CATION substance or mixture of meet the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula need to be labeled in accordance with Regulation (EC present in the classification criteria according to Regula present in the classification criteria according to Regula pre	29449 / China 86-400-821-347 tion (EC) No 1272/2008 [GHS/ C) No 1272/2008 [GHS/CLP] or	75 CLP] or 29 CFR 1910.1200 [OSHA]. r 29 CFR 1910.1200 [OSHA].		
2. 2.1 2.2 2.3 3. 3.1 3.2 4.	For chemical emergence Bio-Techne Tel: US: 61 HAZARDS IDENTIFI Classification of the se This substance does not Label Elements This product does not Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and se If Inhaled Remove to fresh air am In Case of Skin Conta Wash skin with soap an In Case of Eye Conta	cy, spill, leak, fire, exposure, or accident call CHEMTI 2-379-2956 or 800-343-7475 / Europe: +44(0)1235-5 CATION substance or mixture of meet the classification criteria according to Regula need to be labeled in accordance with Regulation (EG contain hazardous chemicals at concentrations of 1% ES d measures how this safety data sheet. d monitor breathing. how this refer the data sheet. d monitor breathing.	29449 / China 86-400-821-347 tion (EC) No 1272/2008 [GHS/ C) No 1272/2008 [GHS/CLP] or	75 CLP] or 29 CFR 1910.1200 [OSHA]. r 29 CFR 1910.1200 [OSHA].		
2. 2.1 2.2 2.3 3. 3.1 3.2 4.	For chemical emergence Bio-Techne Tel: US: 61 HAZARDS IDENTIFI Classification of the se This substance does not Label Elements This product does not Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures This product does not of FIRST AID MEASUR Description of first aid General Advice Consult a doctor and se If Inhaled Remove to fresh air am In Case of Skin Conta Wash skin with soap an In Case of Eye Conta	cy, spill, leak, fire, exposure, or accident call CHEMTI 2-379-2956 or 800-343-7475 / Europe: +44(0)1235-5 CATION substance or mixture of meet the classification criteria according to Regula need to be labeled in accordance with Regulation (EG permettion on INGREDIENTS Contain hazardous chemicals at concentrations of 1% ES d measures how this safety data sheet. d monitor breathing. inct nd water. If irritation occurs, consult a doctor.	29449 / China 86-400-821-347 tion (EC) No 1272/2008 [GHS/ C) No 1272/2008 [GHS/CLP] or	75 CLP] or 29 CFR 1910.1200 [OSHA]. r 29 CFR 1910.1200 [OSHA].		

#### 4.2 Most important symptoms and effects, both acute and delayed

Odor Threshold

рH

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. EXPOSURE CONTROLS/PERSONAL PROTECTION 8. 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. **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 Lyophilized white powder or clear liquid Vapor Pressure No data available. Appearance Odor No data available.

	Malilian (Examine Daint	No. Joke and Table		No. John Scott 1.		
	Melting / Freezing Point	No data available.	Partition Coefficient	No data available.		
	Boiling Point / Range Flash Point	No data available. No data available.	Auto ignition Temperature Decomposition Temperature	No data available. No data available.		
	Evaporation Rate	No data available.		No data available.		
	Flammability (Solid, Gas)	No data available.	Viscosity Explosive Properties	No data available.		
	Upper / Lower Flammability or	No data available.	Oxidizing Properties	No data available.		
	Explosive Limits	NU Gala avaliable.	Oxidizing Properties	NU data avaliable.		
.2	<b>Other safety information</b> No data available.					
0.	STABILITY AND REACTIVITY					
0.1	Reactivity					
	Stable under recommended transpor	t or storage conditions.				
10.2	Chemical stability					
	Stable under recommended storage conditions.					
0.3	Possibility of hazardous reactions					
		nder normal transport or storage conditio	ons. Decomposition may occur on exposure to condit	ions or materials listed below.		
10.4	Conditions to avoid					
0.5	Heat, moisture.					
10.5	Incompatible materials	,				
	Strong acids/alkalis, strong oxidizing/					
0.6	Hazardous decomposition produc					
	Strong acids/alkalis, strong oxidizing/					
1.	TOXICOLOGICAL INFORMATION	N				
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.					
	Classified based on available data. Specific Target Organ Toxicity – Single Exposure					
	Classified based on available data.					
	Specific Target Organ Toxicity – R	epeated 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					
2.	ECOLOGICAL INFORMATION					
2.1	Toxicity					

No data available.

## 12.2 Persistence and degradability

No data available.

12.3	Bio accumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects
	No data available.
13.	DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods
	Product
	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
	Contaminated Packaging
	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.
14.	TRANSPORT INFORMATION
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**

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. End of safety data sheet.

## RD SYSTEMS a biotechne brand

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

## 1.1 Product Identifiers

Product Name: Standard (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):

## $\langle ! \rangle$

		×
Sign	al Word:	Warning
Haz	ard Statement(s):	
H31	7	May cause an allergic skin reaction.
Prec	cautionary Statement(s):	
P26	1	Avoid breathing dust/fumes/gas/mist/vapors/spray.
P27	2	Contaminated work clothing should not be allowed out of the workplace.
P28	0	Wear protective gloves/protective clothing/eye protection/face protection.
P30	2+P352	IF ON SKIN: Wash with plenty of soap and water.
P33	3+P317	If skin irritation or rash occurs: Get medical help.
P36	2+P364	Take off contaminated clothing and wash it before reuse.
P50	1	Dispose of contents/container to an approved waste disposal plant.
Oth	er Hazards - None	

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. 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.

#### **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	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.
Other safety information			

#### 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

## 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 contact.
Eyes:	There may be irritation and redness.
Delayed/Immediate Effects:	No known symptoms.

## Additional Information

Classified based on available data

	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
1.1.1	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.
	A Grennical 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.

End of safety data sheet.

## RD SYSTEMS a biotechne brand

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

# 1.1 Product Identifiers Product Name: Streptavidin (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):

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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	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_lsothiazolin_3_One (3:1)					

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.

#### **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	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.
Other safety information			

#### 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

### 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 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	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.
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13. 13.1	DISPOSAL CONSIDERATIONS Waste treatment methods
13.1	
	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.	
14.	
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
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