

Safety Data Sheet

Version 4.0 SDS Revision Date 3/06/2024 www.rndsystems.com

duct Identifiers duct Name: alog Number: nponents:	MycoProbe Mycoplasma Detection Kit CUL001B Hybridization Microplate Cell Lysis Diluent Sample Diluent Anti-Digoxigenin-AP Conjugate (contains Pro Capture Probes Detection Probes Positive Control	oclin 300 Mixture)		
alog Number:	CUL001B Hybridization Microplate Cell Lysis Diluent Sample Diluent Anti-Digoxigenin-AP Conjugate (contains Pro Capture Probes Detection Probes	oclin 300 Mixture)		
-	Hybridization Microplate Cell Lysis Diluent Sample Diluent Anti-Digoxigenin-AP Conjugate (contains Pro Capture Probes Detection Probes	oclin 300 Mixture)		
nponents:	Cell Lysis Diluent Sample Diluent Anti-Digoxigenin-AP Conjugate (contains Pro Capture Probes Detection Probes	oclin 300 Mixture)		
	Sample Diluent Anti-Digoxigenin-AP Conjugate (contains Pro Capture Probes Detection Probes	oclin 300 Mixture)		
	Anti-Digoxigenin-AP Conjugate (contains Pro Capture Probes Detection Probes	oclin 300 Mixture)		
	Capture Probes Detection Probes	oclin 300 Mixture)		
	Detection Probes			
	Positive Control			
	Wash Buffer Concentrate (contains Sodium	Azide)		
	Stop Solution (contains Sulfuric Acid)			
	Substrate			
	Substrate Diluent (contains Sodium Azide)			
	Amplifier			
	Amplifier Diluent (contains Ethylene Glycol ar	nd Sodium Azide)		
evant identified us	ses of the substance or mixture and uses advise	dagainst		
ntified Uses:	For research use only.			
ails of the supplie	r of the safety data sheet			
npany:	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	
ada:	461 North Service Rd West	Telephone:	1-855-668-8722	
	Unit B37	Fax:	902-827-6402	
	Oakville, ON L6M 2V5	Email address:	Canada.inquiries@bio-techne.com	
ed 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	
	1193 Changning Road	Telephone:	86-400-821-3475	
na:	Unit 1901, Raffles Changning Office	Fax:	76 (021)52371001	
na:	Shanghai, China	Email address:	techsupport.cn@bio-techne.com	
	-	Abingdon Science Park Abingdon, OX14 3NB 1193 Changning Road Unit 1901, Raffles Changning Office	Abingdon Science ParkFax:Abingdon, OX14 3NBEmail address:1193 Changning RoadTelephone:Unit 1901, Raffles Changning OfficeFax:Shanghai, ChinaEmail address:	Abingdon Science Park Abingdon, OX14 3NBFax:44 (0)1235 5334201193 Changning RoadEmail address:info.emea@bio-techne.com1193 Changning RoadTelephone:86-400-821-3475Unit 1901, Raffles Changning OfficeFax:76 (021)52371001

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		
1.1	Product Identifiers				
	Product Name:	Hybridization Microplate			
1.2	Relevant identified use	s 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.mdsystems.com	
		,	Email address:	info@bio-techne.com	
	Canada:	21 Canmotor Ave	Telephone:	1-855-668-8722	
	oundu.	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: Email address:	44 (0)1235 533420	
		Abingdon, OX14 3NB	Linali 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	-	2		
		2-379-2956 or 800-343-7475 / Europe: +44(0)123		1 U.S. 1-800-262-8200 Worldwide 1-703-741-5500 321-3475	
2.	HAZARDS IDENTIFIC	ATION			
2.1	Classification of the su	ibstance or mixture			
	This substance does no	ot meet the classification criteria according to Reg	ulation (EC) No 1272/2008	[GHS/CLP] or 29 CFR 1910.1200 [OSHA]	
2.2	Label Elements				
	The product does not no	eed to be labelled in accordance with Regulation (E	EC) No 1272/2008 [GHS/CL	_P] or 29 CFR 1910.1200 [OSHA]	
2.3	Other Hazards - None				
3.	COMPOSITION/INFO	RMATION ON INGREDIENTS			
3.1	Substances				
	Not applicable.				
3.2	Mixtures				
	Not applicable.				
4.	FIRST AID MEASURE	ES			
4.1	Description of first aid	measures			
	General Advice				
	Not applicable.				
	If Inhaled				
	Not applicable.				
	In Case of Skin Contac Not applicable.	t			
	In Case of Eye Contact				
	Not applicable.				
	If Swallowed				
	Not applicable.				
4.2	Most important sympto	oms and effects, both acute and delayed			
	Not applicable.				
4.3	Indication of immediate	e medical attention and special treatment needed	i		2 of 59

Not applicable.

5.	FIRE-FIGHTING MEASURES						
.1	Extinguishing Media						
	Suitable extinguishing media						
		t foam, dry chemical or carbon dioxide.					
.2	Special hazards arising from the	-					
	None known						
.3	Precautions for fire-fighters						
	Wear suitable protective clothing t	o prevent contact with skin and eyes and self-contair	ned breathing apparatus.				
	ACCIDENTIAL RELEASE MEA	SURES					
.1	Personal precautions, protective	equipment and emergency procedures					
	Not applicable.						
.2	Environmental precautions						
	Not applicable.						
i.3	Methods and materials for conta	inment and cleaning up					
	Not applicable.						
6.4	Reference to other sections						
	For required PPE see section 8. F	For disposal see section 13.					
	HANDLING AND STORAGE						
7.1	Precautions for safe handling						
	Not applicable.						
.2	Conditions for safe storage, inclu	uding any incompatibilities					
	Store in cool, dry place.						
7.3	Specific end uses						
	Not applicable.						
3.	EXPOSURE CONTROLS/PERS	SONAL PROTECTION					
8.1	Control parameters						
	Components with workplace co	ntrol parameters					
	Contains no substances with occ	upational exposure limit values.					
3.2	Exposure controls						
	Appropriate Engineering Control	s					
	Not applicable.						
	Personal Protective Equipment						
	Eye / Face Protection						
	Use appropriate safety glasses.						
	Skin Protection						
	Use appropriate chemical resista handling.	ant gloves (minimum requirement use standard BS	EN 374:2003). Gloves should be inspec	ted before use. Wash and dry hands thoroughly after			
	Body Protection						
	Wear appropriate protective clothing.						
	Respiratory Protection						
	If risk assessment indicates nece	ssary, use a suitable respirator.					
	PHYSICAL AND CHEMICAL P	ROPERTIES					
9.1	Information on basic physical ar	nd chemical properties					
	Appearance	Microplate coated in antibodies	Vapor Pressure	No data available.			
	Odor	Little to none	Vapor Density	No data available.			
	Odor Threshold	No data available.	Relative Density	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.

9.2 Other safety information

No data available.

10.	STABILITY AND REA	CTIVITY				
10.1	Reactivity					
	Stable under recommer	nded transport or storage conditions.				
10.2	Chemical stability					
	Stable under recommer	nded storage conditions.				
10.3	Possibility of hazardou	is reactions				
	Hazardous reactions wi	ill not occur under normal transport or storage conditions				
10.4	Conditions to avoid					
	None known.					
10.5	Incompatible materials	3				
	None known.					
10.6	Hazardous decomposit	tion products				
	None known.					
11.	TOXICOLOGICAL INF	FORMATION				
11.1	Information on toxicolo	ogical effects				
	Acute Toxicity					
	Classified based on ava	ailable 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:	Not a normal route of entry				
	Ingestion:	Not a normal route of entry				
	Skin:	Not a normal route of entry				
	Eyes:	Not a normal route of entry				
	Delayed / Immediate Effects:	No known symptoms.				

Classified based on available data

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
 - No data available.

12.2 Persistence and degradability

No data available.

Oxidizing Properties

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 a 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. CERCLAReportable Quantity : Not applicable. California Proposition 65 :

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

RD SYSTEMS a biotechne brand

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

1.1 Product Identifiers

Product Name: Cell Lysis Diluent

Catalog Number: 4250-010-01

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

1.5	Details of the supplier of the subcty 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:	461 North Service Rd West	Telephone:	1-855-668-8722			
		Unit B37	Fax:	902-827-6402			
		Oakville, ON L6M 2V5	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			

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]

Acute Toxicity, oral - Category 4 Acute Toxicity, dermal - Category 4 Acute Toxicity, inhalation - Category 3 Skin Corrosion/irritation - Category 2 Serious eye damage/eye irritation - Category 2A Single target organ toxicity – single exposure - Category 3

2.2 Label Elements

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





Pictogram(s): GHS05

Signal Word:

Warning

Statement(s):

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects

Precautionary Statement(s):

P261	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and] thoroughly after handling.
P270	Use only outdoors or in a well-ventilated area.
P271	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes.
P319	Get medical help if you feel unwell.
P301+P317	IF SWALLOWED: Get medical help.
P302+P352	IF ON SKIN: wash with plenty of water

P332+P317	If skin irritation occurs: Get medical help.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P316	Get emergency medical help immediately.
P321	Specific treatment (see on this label).
P305+P351+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Other Hazards – None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Component	CAS No.	EC No.	Index No.	Classification	Conc.
Ethylenediamine tetraacetic acid	6381-92-6	205-358-3	607-429-00-8	H302, H312, H315, H319, H332, H335, H412	<5%
Sodium lauryl sarcosine	7631-98-3	231-553-8		H319	1%
Triton X-100	9002-93-1	264-520-1		H302, H318	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

Move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Show this MSDS.

In Case of Skin Contact

Immediately take off contaminated clothing or shoes. Wash with plenty of soap and water. Immediately consult a physician.

In Case of Eye Contact

Rinse thoroughly with water for at least 15 minutes and immediately consult a physician.

If Swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician. Show this MSDS.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11.

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

Carbon oxides (COx), Nitrogen oxides (NOx) (See section 10)

5.3 Precautions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions

Keep away from drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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 of vapors or mist. Use normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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 with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye / Face Protection

Wear approved safety goggles.

Skin Protection

Handle with protective gloves, plastic, or rubber. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved. Wear suitable protective clothing as protection against splashing or contamination.

Respiratory Protection

In case of inadequate ventilation, use a suitable respirator. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid	Vapor Pressure	No data available.
Odor	Strong pungent	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	1.01
pH	~10	Solubility(ies)	Soluble
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.
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 normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Strong oxidizers, strong bases.

10.4 Conditions to avoid

Incompatible materials

10.5 Incompatible materials

Copper, copper alloys, nickel

10.6 Hazardous decomposition products

Products formed under fire conditions: Carbon oxides (COx), Nitrogen oxides (NOx)

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Can cause severe burns upon contact while the vapors or mist are corrosive and can cause severe irritation or damage to the nose, throat and lungs. Ingestion of this product causes pain, nausea and vomiting and may be fatal if large doses are ingested.

Skin Corrosion / Irritation

Can cause severe burns.

Serious Eye Damage / Irritation

Can cause severe burns.

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

Can cause severe burns.

Symptoms / Routes of Exposure

Inhalation:	Harmful if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion:	Harmful if swallowed. Irritating to mouth, throat and stomach. Causes burns.
Skin:	Causes skin irritation / causes burns.
Eyes:	Causes serious eye irritation / causes burns / corneal necrosis.
Delayed / Immediate Effects:	Repeated skin contact with this product may lead to dermatitis while repeated inhalation may cause bronchitis, conjunctivitis, respiratory infections, emphysema and digestive disturbances. May cause erosion and discoloration of the teeth.

Additional Information

Classified based on available data

12 ECOLOGICAL INFORMATION

12.1 Toxicity

This product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

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

13.2 Product

Dispose of waste in accordance to applicable national, regional, or local regulations.

Contaminated Packaging

Dispose in the same manner as unused product.

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

14.4 Packaging group

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

14.5 Environmental hazards

This product is classified as environmentally hazardous and should not be released into the environment.

14.6 Special precautions for users

No data available.

Additional Transport Information

No data available.

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) : On TSCA Inventory

SARA 313: Not listed. SARA 311/312: Not listed.

CERCLA Reportable Quantity: Not listed.

California Proposition 65 :

Not listed

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.



IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1. 1.1 **Product Identifiers** Product Name: Sample Diluent 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 21 Canmotor Avenue 1-855-668-8722 Canada: Telephone: Toronto, Ontario M8Z4E6 902-827-6402 Fax: 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 1193 Changning Road 86-400-821-3475 Telephone: Unit 1901, Raffles City Changning Office Fax: 76 (021) 52371001 Shanghai Email address techsupport.cn@bio-techne.com 1.4 **Emergency Telephone Number** Emergency Tel: 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 This substance does not meet the classification criteria according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]. 2.2 Label Elements This product does not need to be labelled in accordance with Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]. 2.3 Other Hazards - None 3. COMPOSITION/INFORMATION ON INGREDIENTS Substances 3.1 Not applicable. 3.2 Mixtures This product does not contain hazardous chemicals at concentrations of 1% or greater. This product is not known to contain carcinogens at concentrations of 0.1% or greater. FIRST AID MEASURES 4. 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. In Case of Skin Contact Wash skin with soap and water. If irritation occurs, consult a doctor. In Case of Eye Contact Flush with water for at least 15 minutes. If irritation occurs, consult a doctor. If Swallowed Rinse mouth with water. Consult a doctor if you feel unwell. Most important symptoms and effects, both acute and delayed 4.2 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.

5.1 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.

	Upper / Lower Flammabi	•						
	Explosive Limits	No data available.	Oxidizing Properties	No data available.				
9.2	Other safety information No data available.							
10.	STABILITY AND REAC	ΤΙVITY						
10.1	Reactivity							
	Stable under recommende	ed transport or storage conditions.						
10.2	Chemical stability							
	Stable under recommende	ed storage conditions.						
10.3	Possibility of hazardous	reactions						
	Hazardous reactions will n	ot occur under normal transport or storage conditi	ons. Decomposition may occur on exposure to condit	ions or materials listed below.				
10.4	Conditions to avoid							
	Heat, moisture.							
10.5	Incompatible materials							
	Strong acids/alkalis, strong	g oxidizing/reducing agents.						
10.6	Hazardous decomposition	on products						
	Strong acids/alkalis, strong	g oxidizing/reducing agents.						
11.	TOXICOLOGICAL INFO	ORMATION						
11.1	Information on toxicolog	jical effects						
	Acute Toxicity							
	Classified based on available data.							
	Skin Corrosion / Irritation							
	Classified based on available data.							
	Serious Eye Damage / In	ritation						
	Classified based on availa							
	Respiratory or Skin Sens							
	Classified based on availa							
	Germ Cell Mutagenicity							
	Classified based on availa	ble data.						
	Carcinogenicity							
	Classified based on availa	ble data.						
	Reproductive Toxicity							
	Classified based on availa	ble data.						
	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.							
	Classified based on available data. Aspiration Hazard							
	Aspiration Hazard Classified based on available data.							
	Classified based on available data. Symptoms / Routes of Exposure							
	Symptoms / Routes of Exposure Inhalation: No known symptoms.							
	Ingestion:	No known symptoms.						
	Skin:	No known symptoms.						
	Eyes:	No known symptoms.						
	Delayed/Immediate Effec	Delayed/Immediate Effects: No known symptoms.						
	Additional Information							
	Classified based on availa	ble data.						

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

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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 TH	HE SUBSTANCE/MIXTURE AND OF THE	COMPANY/UNDERTAKING	3				
1.1	Product Identifiers							
	Product Name:	Anti-Digoxigenin-AP Conjugate (contains	s Proclin 300 Mixture)					
1.2	Relevant identified uses	of the substance or mixture and uses adv	ised against					
	Identified Uses:	For Research Use Only						
1.3	Details of the supplier of	f 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:	461 North Service Rd West	Telephone:	1-855-668-8722				
	Ganada	Unit B37	Fax:	902-827-6402				
		Oakville, ON L6M 2V5	Email address:	Canada.inquiries@bio-techne.com				
	United Kingdom:	19 Barton Lane Abingdon	Telephone:	44 (0)1235 529449				
		Science Park Abingdon, OX14 3NB	Fax: Email address:	44 (0)1235 533420 info.emea@bio-techne.com				
1.4	Emergency Telephone N		Email address.					
1.4			ATREC dov or pight: Within LL	S. 1-800-262-8200 Worldwide 1-703-741-5500				
		379-2956 or 800-343-7475 / Europe: +44(0)123						
2.	HAZARDS IDENTIFICA	TION						
2.1	Classification of the sub	Classification of the substance or mixture						
	Classification according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]							
	Sensitization, skin - Cateo							
2.2	Label Elements							
2.2		agulation (EC) No 1272/2008 [CHS/CLB] or 2	CER 1010 1200 [OSUA]					
		egulation (EC) No 1272/2008 [GHS/CLP] or 2	5 CFK 1910.1200 [OSHA]					
	Pictogram(s):							
		•						
	Signal Word:	Warning						
	Hazard Statement(s):							
	H317	May cause an allergic skin reaction	on.					
	Precautionary Statement(s):						
	P261	Avoid breathing dust/fume/gas/mis	st/vapors/spray.					
	P272	Contaminated work clothing shou						
	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 P501	Take off contaminated clothing an Dispose of contents/container to a		ant				
2.3	Other Hazards - None			AT 12.				
2.0								
3.	COMPOSITION/INFOR	MATION ON INGREDIENTS						
3.1	Substances							
0.1	Not applicable.							
3.2	Mixtures							
3.2		CASNo FON-	Inde No	Classification	Cana			
	Component	CAS No. EC No.	Index No		Conc.			
	Proclin 300 Mixture = .005 ingredients)	5% (acuve 96118-96-6		H317				
	Mixture of 5-Chloro-2-M	•	613-167-	00-5	<0.1%			
	Isothiazolin-3-One (2617 and 2-Methyl-4-Isothiaz One (2682-20-4)	,						

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. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

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(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

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

	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.
	CERCLA Reportable Quantity: Not applicable.
	California Proposition 65 : Proclin 300 Mixture = .005%
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.



1.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE CO	MPANY/UNDERTAKING	i
1.1	Product Identifiers			
	Product Name:	Capture Probes		
1.2	Relevant identified use	es of the substance or mixture and uses advise	dagainst	
	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 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:	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
1.4	Emergency Telephone	Number		
	For chemical emergency	, spill, leak, fire, exposure, or accident call CHEMTR	EC day or night: Within U.S	S. 1-800-262-8200 Worldwide 1-703-741-5500
	Bio-Techne Tel: US: 612	-379-2956 or 800-343-7475 / Europe: +44(0)1235-5	29449 / China 86-400-821-	3475
2.	HAZARDS IDENTIFIC	ATION		
2.1	Classification of the su	ubstance or mixture		
		t meet the classification criteria according to Regul	ation (EC) No 1272/2008 [[GHS/CLP] or 29 CFR 1910.1200 [OSHA].
2.2	Label Elements			
		eed to be labelled in accordance with Regulation (E	C) No 1272/2008 [GHS/C]	LP] or 29 CER 1910 1200 [OSHA]
2.3	Other Hazards - None			- ,
3.	COMPOSITION/INFO	RMATION ON INGREDIENTS		
3.1	Substances			
0.1	Not applicable.			
3.2	Mixtures			
0.2		ontain hazardous chemicals at concentrations of 1	% or greater. This product i	is not known to contain carcinogens at concentrations of 0.1% or greater.
4.	FIRST AID MEASURE			
4.1	Description of first aid			
4.1	General Advice	lileasures		
		ow this safety data sheet.		
	If Inhaled			
	Remove to fresh air and	monitor breathing.		
	In Case of Skin Contac			
	Wash skin with soap and	d 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.		
4.2		oms and effects, both acute and delayed		
		edge, the chemical, physical and toxicological prop	perties have not been thoro	bughly investigated.
4.3		e medical attention and special treatment need		•
		neet to the doctor in attendance. Immediate medica		
	,		·	

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	Probes	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.

	Upper / Lower Flammabil							
	Explosive Limits	No data available.	Oxidizing Properties	No data available.				
9.2	Other safety information							
	No data available.							
10.	STABILITY AND REACT	ΓΙVITY						
10.1	Reactivity							
	Stable under recommende	ed transport or storage conditions.						
10.2	Chemical stability							
	Stable under recommende	d storage conditions.						
10.3	Possibility of hazardous	reactions						
	Hazardous reactions will n	ot occur under normal transport or storage conditio	ons. Decomposition may occur on exposure to cond	itions or materials listed below.				
10.4	Conditions to avoid							
	Heat, moisture.							
10.5	Incompatible materials							
		oxidizing/reducing agents.						
10.6	Hazardous decompositio							
	-	oxidizing/reducing agents.						
11.	TOXICOLOGICAL INFO	RMATION						
11.1	Information on toxicolog							
	-							
	Acute Toxicity Classified based on available data.							
	Classified based on available data. Skin Corrosion / Irritation							
	Classified based on available data.							
	Serious Eye Damage / Iri							
	Classified based on availa							
	Respiratory or Skin Sens							
	Classified based on availa							
	Germ Cell Mutagenicity							
	Classified based on availa	ble data.						
	Carcinogenicity							
		ble data						
	Classified based on available data.							
	Reproductive Toxicity							
	Classified based on available data.							
	Specific Target Organ Toxicity - Single Exposure Classified based on available data.							
	Classified based on available data. Specific Target Organ Toxicity - Repeated Exposure							
	Classified based on available data. Aspiration Hazard							
	Classified based on availal	ble data						
	Symptoms / Routes of Ex							
	Inhalation:	No known symptoms.						
	Ingestion: Skin:	No known symptoms. No known symptoms.						
	Skin: Eyes:	No known symptoms.						
	Eyes. No known symptoms.							
	-	a. no mown symptoms.						
	Additional Information							
	Classified based on availal	ble data.						

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]

Safety, health and environmental regulations/legislation specific for the substance or mixture TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.



1.1 Product Identifiers Product Name: Detection Probes 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: RAD Systems, Inc. a Bio-Techne Brand Minneapolis, MN 55413, USA Telephone: 1-612-265-4400 Minneapolis, MN 55413, USA Internet: www.mdsystems.com Canada: 21 Cannotor Avenue Toronto. Ontain M82/EEB Fax: 1-622-267-4402 Canada: 21 Cannotor Avenue Toronto. Ontain M82/EEB Fax: 02-227-4402 Canada: 21 Cannotor Avenue Toronto. Ontain M82/EEB Fax: 02-227-4402 Canada: 19 Barton Lane Telephone: 1-485-488-8722 Canada Email address: Canada.inquires@bio-techne.com United Kingdom: 19 Barton Lane Fex: 44 (10)1235 50449 Abingdon, OX14 3NB Email address: info.emaa@bio-techne.com Chine: 1193 Changning Road Telephone: 86-400-821-3475 Toro chine: 1193 Changning Office Fax: 76 (21) 52371001 Shanglau Email								
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 12 Reverse description to the substance or mixture and uses advised against an excint of the subplicit of the subglicit of the su	1.1	Product Identifiers						
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 13 Details of the supplier of the subject of the subj	1.2	Relevant identified use	es of the substance or mixture and uses advise	d against				
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Image: Second	1.3	Details of the supplier	of the safety data sheet					
 Minnegolis, MN 56113, USA Minnegolis, Minnegolis, MN 56113, USA Minnegolis, MN 5611		Company:	R&D Systems, Inc. a Bio-Techne Brand	Telephone:	1-800-343-7475			
 Land address: info@bo-schencom Canada: 21 Cannoto MA26E0 Canada: Canada: Canada C			614 McKinley Place NE	Fax:	1-612-656-4400			
Canada: 21 Cannotor Avenue: Toronto, Ontario M824E6 Telephone: Fax: 902-827-8402 United Kingdom: 41 Braton Lane Telephone: 44 (0)1225 533420 United Kingdom: 41 Braton Lane Telephone: 44 (0)1225 533420 Abingdon, OX14 3NB Email address: #foremeg@bio-techne.com Omm: U183 Changing Road Mangon, OX14 3NB Telephone: 88-400-821-3475 (1) (235 533420) Chana: U183 Changing Road Mangon, OX14 3NB Telephone: 88-400-821-3475 (1) (235 700 1) Shareghai Email address: #foremeg@bio-techne.com 14 Emergency Telephone Number Fax: 88-400-821-3475 (1) (235 700 4) 14 Emergency Telephone Number Fax: 88-400-821-3475 14 Emergency Telephone Number Fax: 78 defonical emergency.sqll, esk, fire.exposure, or accident call CHEMTREC day or night: Within U.S. 1-800-282-8000 Workwide 1-703-741-5500 B 14 Chansel commons to most the dessification or the substance or mixture Time is address: Toronte accidence on the comonance or the substance or nixture 15 U180 10501111/CATION Number 1000 1290 (05HA). 121 2000 (0HS/CLP) or 29 CFR 1910.1200 (0SHA). 23 Other Hazards - None Subst			Minneapolis, MN 55413, USA		-			
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United Kingdom: 19 Barton Lame Telephone: 44 (0)1235 533420 Abingdon, CX14 3NB Email address: intermediable-techne.com China: 1193 Changning Road Telephone: 86-400-421-4475 Unit 1001, Raffice Coty Changning Office Fax: 70 (2013 52371001) Shanghai Email address: totheure: 86-400-421-4475 The instruction of the 100 Changning Office Fax: 77 (2013 52371001) Shanghai Email address: totheure: 86-400-421-4475 Totheure: 100 Changing Road Telephone: 86-400-421-4475 Totheure: 100 Changing Road Telephone: 86-400-421-4475 Totheure: 100 Changing Road Telephone: 86-400-421-4475 Totheure: 100 Cassification of the substance or mixture 100 Cassification of the substance or mixture The product does not meet the classification or trent according to Regulation (EC) No 1272/2008 (GHS/CLP) or 29 CFR 1910.1200 (OSH4). 100 CoSH4). 21 Classification of the substance or mixture 110 Cassification of the substance or mixture 110 Cassification of the substance or mixture 31 CoMPOSITIONINFORMATION ON INGREDIENTS 110 Castof Sin Context 110 Castof S			Toronto, Ontario M8Z4E6	Fax:	902-827-6402			
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 Abingdon, OX14 3NB Email address: info.emsa@bio-feether.com This Changning Road Unit 1901, Raffies City Changning Office Shanghai Email address: Bed400-821-3475 Fac: Recognery Telephone Number Fac: here infield emergency. still, leak, free, exposure, or acadent call CHEMTREC day or night: Within U.S. 1-800-320-4200 Workwide 1-703-741-5500 B io-Techen Tat: U.S. 612-379-2986 or 800-343-7476 / Europe: +44(0)/125-529444 / China 88-400-821-3475 HAZARDS IDENTIFICATION HAZARDS IDENTIFICATION Label Elements This substance does not meet the classification criteria according to Regulation (EC) No 1272/2008 [CHIS/CLP] or 29 CFR 1910.1200 [OSHA]. Chine resc: CompOSITIONINFORMATION ON INGREDIENTS Other Hazards - None COMPOSITIONINFORMATION ON INGREDIENTS Substance for sont need to be labelied in according to Regulation (EC) No 1272/2008 [CHIS/CLP] or 29 CFR 1910.1200 [OSHA]. Other Hazards - None CompOSITIONINFORMATION ON INGREDIENTS Substance for sont need to contain hazardous chemicals at concentrations of 1% or greater. This product is not know be contain carcinogens at concentrations of 0.1% or greater Prist ADI MEASURES FIRST ADI MEASURES Subscription of first all measures General Advice Consult a doctor and show this usafely data sheet. Hisalow Ranson with watage on during the induced, pristeria and coders. Hisalow Ranson to first at and monitor breathing. In Case of Six Consult a doctor. Hisalow Ranson with watage on during the induced consult and coders. Hisalow Ranson with watage on during the induced pristeria and doctor. Hisalow Ranson with watage on during the induced pristeria and coctor. Hisalow Ransenduring there is the induced		office Ringdoffi.						
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 2.2 Label Elements The product does not need to be labelled in accordance with Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]. 2.3 Other Hazards - None 3.2 COMPOSITION/INFORMATION ON INGREDIENTS 3.1 Substances Not applicable. 3.2 Mixtures This product does not contain hazardous chemicals at concentrations of 1% or greater. This product is not known to contain carcinogens at concentrations of 0.1% or greater 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. In Case of Skin Contact Wash skin with soap and water. If irritation occurs, consult a doctor. In Case of Skin Contact Flush with water for at least 15 minutes. If irritation occurs, consult a doctor. If Swallowed Rinse mouth with water. Consult a doctor if you feel unwell. 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 	2.1	Classification of the s	ubstance or mixture					
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 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. In Case of Skin Contact Wash skin with soap and water. If irritation occurs, consult a doctor. In Case of Eye Contact Flush with water for at least 15 minutes. If irritation occurs, consult a doctor. If Swallowed Rinse mouth with water. Consult a doctor if you feel unwell. 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 								
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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			·					
4.3 Indication of immediate medical attention and special treatment needed	4.2		-					
					pughly investigated.			
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.	4.3		-					
		Show this safety data sh	neet to the doctor in attendance. Immediate medica	al attention is required.				

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	Probes	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.

		ity or						
	Explosive Limits	No data available.	Oxidizing Properties	No data available.				
9.2	Other safety information							
	No data available.							
10.	STABILITY AND REACT	Ίνιτγ						
10.1	Reactivity							
	Stable under recommended	d transport or storage conditions.						
10.2	Chemical stability							
	Stable under recommended	d storage conditions.						
10.3	Possibility of hazardous r	reactions						
	Hazardous reactions will no	ot occur under normal transport or storage conditio	ons. Decomposition may occur on exposure to cond	itions 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							
	Strong acids/alkalis, strong	•						
11.	TOXICOLOGICAL INFO	RMATION						
11.1	Information on toxicologi							
	-							
	Acute Toxicity Classified based on available data							
	Classified based on available data. Skin Corrosion / Irritation							
	Skin Corrosion / Irritation Classified based on available data.							
	Serious Eye Damage / Irr							
	Classified based on availab							
	Respiratory or Skin Sensi							
	Classified based on availab							
	Germ Cell Mutagenicity							
	Classified based on availab	ble data						
	Carcinogenicity							
	Classified based on availab	ble data						
	Reproductive Toxicity							
	Classified based on available data.							
	Specific Target Organ Toxicity - Single Exposure							
	Classified based on available data.							
	Specific Target Organ Toxicity - Repeated Exposure							
	Classified based on available data.							
	Aspiration Hazard Classified based on available data.							
	Symptoms / Routes of Exposure Inhalation: No known symptoms.							
	Ingestion: Skin:	No known symptoms. No known symptoms.						
	Skin: Eyes:	No known symptoms.						
	Eyes: No known symptoms. Delayed/Immediate Effects: No known symptoms.							
	-	s. No known symptoms.						
	Additional Information							
	Classified based on availab	ble data.						

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]

Safety, health and environmental regulations/legislation specific for the substance or mixture TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.



1.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE CO	MPANY/UNDERTAKING				
1.1	Product Identifiers						
	Product Name:	Positive Control					
1.2	Relevant identified use	es of the substance or mixture and uses advise	dagainst				
	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 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:	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			
1.4	Emergency Telephone	Number					
	For chemical emergency	, spill, leak, fire, exposure, or accident call CHEMTR	EC day or night: Within U.S	S. 1-800-262-8200 Worldwide 1-703-741-5500			
	Bio-Techne Tel: US: 612	-379-2956 or 800-343-7475 / Europe: +44(0)1235-5	29449 / China 86-400-821-	-3475			
2.	HAZARDS IDENTIFIC	ATION					
2.1	Classification of the s	ubstance or mixture					
2.1	Classification of the substance or mixture This substance does not meet the classification criteria according to Regulation (EC) No 1272/2008 IGHS/CLPI or 20 CER 1910 1200 IOSHA1						
	This substance does not meet the classification criteria according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA]. Label Elements						
	Label Elements The product does not need to be labelled in accordance with Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].						
2.3	Other Hazards - None		0/110 12/2/2000 [0110/01				
3.		RMATION ON INGREDIENTS					
3.1	Substances						
	Not applicable.						
3.2	Mixtures		/		-		
	This product does not co	ontain nazardous chemicais at concentrations of 19	% or greater. This product i	is not known to contain carcinogens at concentrations of 0.1% or greate	r. 		
4.	FIRST AID MEASURE	is					
4.1	Description of first aid	measures					
	General Advice						
		ow this safety data sheet.					
	If Inhaled						
	Remove to fresh air and monitor breathing.						
	In Case of Skin Contact Wash skin with soap and water. If irritation occurs, consult a doctor.						
	In Case of Eye Contact						
	Flush with water for at least 15 minutes. If irritation occurs, consult a doctor.						
	If Swallowed						
		Consult a doctor if you feel unwell.					
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		e medical attention and special treatment neede					
	Show this safety data sh	neet to the doctor in attendance. Immediate medica	l attention is required.				

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.

	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						
10.1	Reactivity						
	Stable under recommended transport of	or storage conditions.					
10.2	Chemical stability						
	Stable under recommended storage co	nditions.					
10.3	Possibility of hazardous reactions						
	Hazardous reactions will not occur und	er normal transport or storage condition	ons. Decomposition may occur on exposure to condit	lions or materials listed below.			
10.4	Conditions to avoid						
	Heat, moisture.						
10.5	Incompatible materials						
	Strong acids/alkalis, strong oxidizing/re	ducing agents.					
	Hazardous decomposition products						
	Strong acids/alkalis, strong oxidizing/re	ducing agents.					
1.	TOXICOLOGICAL INFORMATION						
	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 - Sing						
	Classified based on available data.	Jie Exposure					
	Specific Target Organ Toxicity - Rep	astad Exposure					
	Classified based on available data.	eateu Exposure					
	Aspiration Hazard						
	Classified based on available data.						
	Symptoms / Routes of Exposure						
	• •	symptoms.					
		symptoms.					
		symptoms. symptoms.					
	Delayed/Immediate Effects: No known symptoms.						
	Classified based on available data.						
	Additional Information	тулпропю.					

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]

Safety, health and environmental regulations/legislation specific for the substance or mixture TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.



Safety Data Sheet

Version 4.0 SDS Revision Date 3/06/2024 www.rndsystems.com

1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1	Product Identifiers			
	Product Name:	Wash Buffer Concentrate		
1.2	Relevant identified uses of	f the substance or mixture and uses advised a	gainst	
	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:	461 North Service Rd West	Telephone:	1-855-668-8722
		Unit B37	Fax:	902-827-6402
		Oakville, ON L6M 2V5	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 City Changning Office Shanghai	Fax:	76 (021) 52371001
			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].

Acute Toxicity - Oral - Category 4

Acute Toxicity - Dermal - Category 4

Aquatic Acute - Category 3

Aquatic Chronic - Category 3

2.2 Label Elements

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

Pictogram(s):



Signal word: DANGER. Hazard Statement(s): H302 Harmful if swallowed. H312 Harmful in contact with skin H402 Harmful to aquatic life Precautionary Statement(s): P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves and eye protection.

P301+P317 IF SWALLOWED: Get medical help.

P321 Specific treatment (Wash areas of contact with water).

P330 Rinse mouth.

P302+P352 IF ON SKIN: wash with plenty of water

P362+P364 Take off contaminated clothing and wash it before reuse.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other Hazards - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Component	CAS No.	EC No.	Index No.	Classification	Conc.
Sodium Azide	26628-22-8	247-852-1	011-004-00-7	H302, H312, H402	≤ 0.5%

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

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Dilute immediately with water or milk. Induce vomiting. 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. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

TLV- (USA) Exposure Limit- 0.29 mg/m³ Ceiling (as NaN3) & 0.11 ppm Ceiling (vapor, as Hydrazoic acid) Source - ACGIH - Threshold Limit Values - Ceilings (TLV-C)

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	No data available.	Oxidizing Properties	No data available.

9.2 Other safety information

No data available.

Oxidizing Properties

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

Acids, metals, Copper, Lead, Brass, solder (in plumbing systems), Benzoyl Chloride and Potassium Hydroxide, Bromine, Carbon Disulfide.

10.6 Hazardous decomposition products

None known.

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:	Harmful if swallowed.
Skin:	Harmful in contact with skin.
Eyes:	There may be irritation and redness.
Delaved / Immediate Effects:	

Additional Information

No known symptoms.

Classified based on available data

12. ECOLOGICAL INFORMATION 12.1 Toxicity Harmful to aquatic life. LC50, 96 hrs, Fish Lepomis Macrochirus - 0.68 mg/L; EC50, 48 hrs, Daphnia Pulex 4.2 mg/L 12.2 Persistence and degradability No data available. 12.3 **Bioaccumulative potential** No data available. 12.4 Mobility in soil Sodium Azide is soluble in water. 12.5 Results of PBT and vPvB assessment No data available. Other adverse effects 12.6 No data available DISPOSAL CONSIDERATIONS 13. 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** UN3287

14.2 UN proper shipping name

Toxic Liquid, Inorganic, n.o.s., (Sodium Azide) n.o.s.

14.3 Transport hazard class(es)

14.4 Packaging group

III

6.1

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

15.1 (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]

Safety, health and environmental regulations/legislation specific for the substance or mixture TSCA (Toxic Substances Control Act) : Listed

SARA 313 : Listed

SARA 311/312 : Listed

CERCLA Reportable Quantity : 1000 lbs.

California Proposition 65 : Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.
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Version 4.0 SDS Revision Date 1/9/2024 www.rndsystems.com

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1. 1.1 Product Identifiers Stop Solution (contains Sulfuric Acid) Product Name: 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Uses: For Research Use Only Details of the supplier of the safety data sheet 1.3 Company: R&D Systems, Inc. a Bio-Techne Brand Telephone: 1-800-343-7475 614 McKinley Place NE 1-612-656-4400 Fax: Minneapolis, MN 55413, USA Internet: www.rndsvstems.com Email address: info@bio-techne.com Canada: 461 North Service Rd West Telephone: 1-855-668-8722 Unit B37 Fax: 902-827-6402 Oakville, ON L6M 2V5 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

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]

Skin Corrosion/Irritation - Category 1A Serious eye damage/eye irritation - Category 1

2.2 Label Elements

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



Pictogram(s): GHS05

Signal Word:	Danger
Statement(s):	
H314 H318	Causes severe skin burns and eye damage irritation. Causes serious eye damage.
Precautionary Stateme	ent(s):
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264+P265	Wash skin thoroughly after handling. Do not touch eyes.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317	Get emergency medical help.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing. And wash it before reuse.
Othor Hazarde - 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	Conc.
Sulfuric Acid	7664-93-9	231-639-5	016-020-00-8	H314, H318	= 9.8 %
Water	7732-18-5	231-791-2			37 of 59 90.2 %

4 FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Consult a doctor and show this safety data sheet.

If Inhaled

Move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Show this MSDS.

In Case of Skin Contact

Immediately take off contaminated clothing or shoes. Wash with plenty of soap and water. Consult a physician.

In Case of Eye Contact

Rinse thoroughly with water for at least 15 minutes and immediately consult a physician.

If Swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician. Show this MSDS.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11.

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

5.2 Extinguishing Media

Suitable extinguishing media

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

5.3 Special hazards arising from the substance or mixture

In case of fire, toxic and corrosive gases may be formed.

5.4 Precautions for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTIAL RELEASE MEASURES

6.2 Personal precautions, protective equipment and emergency procedures

Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.3 Environmental precautions

Keep away from drains.

6.4 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.5 Reference to other sections

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

HANDLING AND STORAGE

7.2 Precautions for safe handling

Avoid inhalation of vapors or mist. Use normal measures for preventive fire protection.

7.3 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.4 Specific end uses

Not applicable.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.2 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.3 Exposure controls

Appropriate Engineering Controls

Use with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye / Face Protection

Wear approved safety goggles.

Skin Protection

Handle with protective gloves, plastic, or rubber. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved. Wear suitable protective clothing as protection against splashing or contamination.

Respiratory Protection

In case of inadequate ventilation, use a suitable respirator. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 PHYSICAL AND CHEMICAL PROPERTIES

9.2 Information on basic physical and chemical properties

Appearance	Colorless liquid	Vapor Pressure	No data available.
Odor	Pungent	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
pH	~1	Solubility(ies)	Soluble
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.

9.3 Other safety information

No data available.

10 STABILITY AND REACTIVITY

10.2 Reactivity

Contact with metals produces highly flammable hydrogen gas. Addition of water liberates excessive heat.

10.3 Chemical stability

Stable under recommended storage conditions.

10.4 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.5 Conditions to avoid

Bases, Halides, Metals, Alkalis, Acetonitrile.

10.6 Incompatible materials

Most metals, oxidizers, reducers, bases, metal carbonates, cyanides, sulfides, carbides, oxides, metal acetylides, hydrides, halogens, organic or combustible materials, perchlorates, acetonitrile, permanganates, alcohols, picrates.

10.7 Hazardous decomposition products

Products formed under fire conditions: oxides of sulfur, hydrogen gas.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Can cause severe burns upon contact while the vapors or mist are corrosive and can cause severe irritation or damage to the nose, throat and lungs. Ingestion of this product causes pain, nausea and vomiting and may be fatal if large doses are ingested.

Skin Corrosion / Irritation

Can cause severe burns.

Serious Eye Damage / Irritation

Can cause severe burns.

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

Can cause severe burns.

Symptoms / Routes of Exposure

Inhalation:	Harmful if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion:	Harmful if swallowed. Irritating to mouth, throat and stomach. Causes burns.
Skin:	Causes skin irritation / causes burns.
Eyes:	Causes serious eye irritation / causes burns.
Delayed / Immediate Effects:	Repeated skin contact with this product may lead to dermatitis while repeated inhalation may cause bronchitis, conjunctivitis, respiratory infections, emphysema and digestive disturbances. May cause erosion and discoloration of the teeth.

Additional Information

Classified based on available data

12 ECOLOGICAL INFORMATION

12.1 Toxicity

This product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

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

Dispose of waste in accordance to applicable national, regional, or local regulations.

Contaminated Packaging

Dispose in the same manner as unused product.

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

UN2796

14.2 UN proper shipping name

Sulfuric acid with not more than 51 percent acid

14.3 Transport hazard class(es)

8

14.4 Packaging group

Ш

14.5 Environmental hazards

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

14.6 Special precautions for users

No data available.

Additional Transport Information

No data available.

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): On TSCA Inventory SARA 313: Not applicable. SARA 311/312: Acute health hazard CERCLA Reportable Quantity: 1000 lbs. California Proposition 65: Sulfuric Acid A Chemical Safety Assessment has not been made for this product.

16 OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet



1.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE CO	MPANY/UNDERTAKING		
1.1	Product Identifiers				
	Product Name:	Substrate			
1.2	Relevant identified use	s 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.mdsystems.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	
	Onned Kingdom.	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			
				U.S. 1-800-262-8200 Worldwide 1-703-741-5500	
	Bio-Techne Tel: US: 61	2-379-2956 or 800-343-7475 / Europe: +44(0)123	35-529449 / China 86-400-8	321-3475	
2.	HAZARDS IDENTIFIC	ATION			
2.1	Classification of the su	bstance or mixture			
	This substance does no	ot meet the classification criteria according to Reg	ulation (EC) No 1272/2008	[GHS/CLP] or 29 CFR 1910.1200 [OSHA]	
2.2	Label Elements				
	The product does not ne	eed to be labelled in accordance with Regulation (I	EC) No 1272/2008 [GHS/CL	.P] or 29 CFR 1910.1200 [OSHA]	
2.3	Other Hazards - None	- · · · ·	, •		
3.	COMPOSITION/INFO	RMATION ON INGREDIENTS			
		AMATION ON INGREDIENTS			
3.1	Substances				
	Not applicable.				
3.2	Mixtures Not applicable.				
4.	FIRST AID MEASURE	S			
4.1	Description of first aid	measures			
	General Advice				
	Not applicable.				
	If Inhaled				
	Not applicable.				
	In Case of Skin Contac Not applicable.	t			
	In Case of Eye Contact				
	Not applicable.				
	If Swallowed				
	Not applicable.				
4.2	Most important sympto	oms and effects, both acute and delayed			
	Not applicable.				
4.3	Indication of immediate	e medical attention and special treatment needed	t		

Not applicable.

5.	FIRE-FIGHTING MEASURES			
5.1	Extinguishing Media			
	Suitable extinguishing media			
	Use water spray, alcohol-resista	ant foam, dry chemical or carbon dioxide.		
5.2	Special hazards arising from th	e substance or mixture		
	None known			
5.3	Precautions for fire-fighters			
	Wear suitable protective clothing	to prevent contact with skin and eyes and self-	contained breathing apparatus.	
i.	ACCIDENTIAL RELEASE MEA	ASURES		
6.1	Personal precautions, protectiv	e equipment and emergency procedures		
	Not applicable.			
6.2	Environmental precautions			
	Not applicable.			
5.3	Methods and materials for cont	ainment and cleaning up		
	Not applicable.			
6.4	Reference to other sections			
	For required PPE see section 8.	For disposal see section 13.		
	HANDLING AND STORAGE			
7.1	Precautions for safe handling			
	Not applicable.			
.2	Conditions for safe storage, inc	luding any incompatibilities		
	Store in cool, dry place.			
7.3	Specific end uses			
	Not applicable.			
B.	EXPOSURE CONTROLS/PER	SONAL PROTECTION		
8.1	Control parameters			
	Components with workplace c	ontrol parameters		
		ccupational exposure limit values.		
3.2	Exposure controls			
	Appropriate Engineering Control			
		<i>n</i> 5		
	Not applicable. Personal Protective Equipment			
	Eye / Face Protection			
	Use appropriate safety glasses.			
		tant gloves (minimum requirement use standa	rd BS EN 374:2003). Gloves should be inspec	ted before use. Wash and dry hands thoroughly after
	handling.			
	Body Protection	sing		
	Wear appropriate protective cloth	ing.		
	Respiratory Protection			
	If risk assessment indicates nec	essary, use a suitable respirator.		
).	PHYSICAL AND CHEMICAL F	PROPERTIES		
9.1	Information on basic physical a			
	Appearance	Cubatrata		No data available.
	Odor	Substrate Little to none	Vapor Pressure 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.

9.2 Other safety information

No data available.

10.	STABILITY AND REA	CTIVITY			
10.1	Reactivity				
	Stable under recommer	nded transport or storage conditions.			
10.2	Chemical stability				
	Stable under recommen	nded storage conditions.			
10.3	Possibility of hazardous	s reactions			
	Hazardous reactions wil	Il not occur under normal transport or storage conditions			
10.4	Conditions to avoid				
	None known.				
10.5	Incompatible materials	i de la constante d			
	None known.				
10.6	Hazardous decomposit	tion products			
	None known.				
11.	TOXICOLOGICAL INF	FORMATION			
11.1	Information on toxicolo	gical effects			
	Acute Toxicity				
	Classified based on ava	ilable data			
	Skin Corrosion / Irritat	tion			
	Classified based on ava	ilable data			
	Serious Eye Damage /	/ Irritation			
	Classified based on ava	ilable data			
	Respiratory or Skin Ser	nsitization			
	Classified based on ava	ilable data			
	Germ Cell Mutagenicit	ty			
	Classified based on ava	ilable data			
	Carcinogenicity				
	Classified based on ava	ailable 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 I	Exposure			
	Inhalation:	Not a normal route of entry			
	Ingestion:	Not a normal route of entry			
	Skin:	Not a normal route of entry			
	Eyes:	Not a normal route of entry			
	Delayed / Immediate Effects:	No known symptoms.			

Classified based on available data

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
 - No data available.

12.2 Persistence and degradability

No data available.

le.

Oxidizing Properties

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 a 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. CERCLAReportable Quantity : Not applicable. California Proposition 65 :

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

RD SYSTEMS a biotechne brand

	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND O	F THE COMPANY/UNDERT	AKING		
	Product Identifiers					
1	Product Name:	Substrate Diluent (contains Sodiur	m Azide < 0.1%			
•						
2		es of the substance or mixture and us	ses auviseu against			
_	Identified Uses:	For research use only.				
.3		of the safety data sheet				
	Company:	R&D Systems, Inc. a Bio-Techne		1-800-343-747		
		614 McKinley Place NE Minneapolis, MN 55413, USA	Fax: Internet:	1-612-656-440 www.rndsyste		
		Minneapons, Mix 55413, USA	Email address:	info@bio-tech		
	Canada:	461 North Service Rd West	Telephone:	1-855-668-872	22	
		Unit B37	Fax:	902-827-6402		
		Oakville, ON L6M 2V5	Email address:	Canada.inquir	ies@bio-techne.com	
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 52	29449	
		Abingdon Science Park	Fax:	44 (0)1235 53		
		Abingdon, OX14 3NB	Email address:	info.emea@bi		
		-				
	China:	1193 Changning Road	Telephone:	86-400-821-34	475	
		Unit 1901, Raffles Changning Offi		76 (021)5237		
		Shanghai,	, China	Email address:	techsupport.cn@bio-techr	ne.com
4	Emergency Telephon	e Number				
	For chemical emergend	cy, spill, leak, fire, exposure, or accident o	call CHEMTREC day or night: \	Vithin U.S. 1-800-262-8200	Worldwide 1-703-741-5500	
	Bio-Techne Tel: US: 61	2-379-2956 or 800-343-7475 / Europe: +	+44(0)1235-529449 / China 86-	400-821-3475		
	HAZARDS IDENTIFIC	ATION				
	HAZARDS IDENTIFIC Classification of the s					
	Classification of the s	ubstance or mixture	ng to Regulation (FC) No 1272/	2008 [GHS/C] Pl or 29 CEE	3 1910 1200 [OSHA]	
	Classification of the s		ng to Regulation (EC) No 1272/	2008 [GHS/CLP] or 29 CFF	R 1910.1200 [OSHA].	
1	Classification of the s This substance does no Label Elements	ubstance or mixture ot meet the classification criteria accordir				
1	Classification of the s This substance does no Label Elements The product does not r	ubstance or mixture				
	Classification of the s This substance does no Label Elements	ubstance or mixture ot meet the classification criteria accordir				
2	Classification of the s This substance does no Label Elements The product does not r	ubstance or mixture ot meet the classification criteria accordir				
1 2 3	Classification of the s This substance does no Label Elements The product does not r Other Hazards - None	ubstance or mixture ot meet the classification criteria accordir				
1 2 3	Classification of the s This substance does no Label Elements The product does not r Other Hazards - None	ubstance or mixture ot meet the classification criteria accordir need to be labeled in accordance with Re				
1 2 3	Classification of the s This substance does no Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances	ubstance or mixture ot meet the classification criteria accordir need to be labeled in accordance with Re				
2 3	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable.	ubstance or mixture ot meet the classification criteria accordir need to be labeled in accordance with Re				
1 2 3 1	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures	Pubstance or mixture of meet the classification criteria accordin need to be labeled in accordance with Re PRMATION ON INGREDIENTS	egulation (EC) No 1272/2008 [(GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	Conc
1 2 3 1	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable.	Provide the classification criteria accordinate the classification criteria accordinate to be labeled in accordance with Representation on INGREDIENTS	egulation (EC) No 1272/2008 [d	GHS/CLP] or 29 CFR 1910		<u>Conc.</u> < 0.1%
1 2 3 1	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component	Provide the classification criteria accordinate the classification criteria accordinate to be labeled in accordance with Representation on INGREDIENTS	egulation (EC) No 1272/2008 [d	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	Conc. < 0.1%
1 2 3 1	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component	Presented or mixture Data meet the classification criteria accordinate need to be labeled in accordance with Reserved to be labeled to be labeled in accordance with Reserved to be labeled to be labeled in accordance with Reserved to be labeled to be lab	egulation (EC) No 1272/2008 [d	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	
2	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component Sodium Azide	cubstance or mixture ot meet the classification criteria accordinate need to be labeled in accordance with Reserved or creation on ingredients cas no. 26628-22-8 24 ES	egulation (EC) No 1272/2008 [d	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	
2 3	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component Sodium Azide	cubstance or mixture ot meet the classification criteria accordinate need to be labeled in accordance with Reserved or creation on ingredients cas no. 26628-22-8 24 ES	egulation (EC) No 1272/2008 [d	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	
2	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASUR Description of first aid General Advice	cubstance or mixture ot meet the classification criteria accordinate need to be labeled in accordance with Reserved or creation on ingredients cas no. 26628-22-8 24 ES	egulation (EC) No 1272/2008 [d	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	
2	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASUR Description of first aid General Advice	Pubstance or mixture ot meet the classification criteria accordinate need to be labeled in accordance with Reserved PRMATION ON INGREDIENTS CAS No. 26628-22-8 24 ES d measures	egulation (EC) No 1272/2008 [d	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	
2	Classification of the set This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASUR Description of first aid General Advice Consult a doctor and st	PRMATION ON INGREDIENTS CAS No. 26628-22-8 24 ES d measures now this safety data sheet.	egulation (EC) No 1272/2008 [d	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	
2 3	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASUR Description of first aid General Advice Consult a doctor and sh If Inhaled	cubstance or mixture ot meet the classification criteria accordinate need to be labeled in accordance with Reserved rRMATION ON INGREDIENTS CAS No. 26628-22-8 24 ES d measures how this safety data sheet. d monitor breathing.	egulation (EC) No 1272/2008 [d	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	
1 2 3 1 2	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASUR Description of first aid General Advice Consult a doctor and st If Inhaled Remove to fresh air an In Case of Skin Conta	cubstance or mixture ot meet the classification criteria accordinate need to be labeled in accordance with Reserved rRMATION ON INGREDIENTS CAS No. 26628-22-8 24 ES d measures how this safety data sheet. d monitor breathing.	egulation (EC) No 1272/2008 [d EC No. Inde 17-852-1 011-0	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	
1 2 3 1 2	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASUR Description of first aid General Advice Consult a doctor and st If Inhaled Remove to fresh air an In Case of Skin Conta	cubstance or mixture ot meet the classification criteria accordinate need to be labeled in accordance with Reserved cRMATION ON INGREDIENTS cRMATION ON INGREDIENTS cCAS No. ES d measures now this safety data sheet. d monitor breathing. ct nd water. If irritation occurs, consult a door	egulation (EC) No 1272/2008 [d EC No. Inde 17-852-1 011-0	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	
1 2 3 1 2	Classification of the s This substance does not Label Elements The product does not r Other Hazards - None COMPOSITION/INFC Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASUR Description of first aid General Advice Consult a doctor and sl If Inhaled Remove to fresh air an In Case of Skin Conta Wash skin with soap ar	cubstance or mixture ot meet the classification criteria accordinate need to be labeled in accordance with Reserved cRMATION ON INGREDIENTS cRMATION ON INGREDIENTS cCAS No. ES d measures now this safety data sheet. d monitor breathing. ct nd water. If irritation occurs, consult a door	egulation (EC) No 1272/2008 [0 EC No. Inde 17-852-1 011-0	GHS/CLP] or 29 CFR 1910	.1200 [OSHA].	

Rinse mouth with water. Consult a doctor if you feel unwell. Most important symptoms and effects, both acute and delayed

- 4.2 To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
 Indication of immediate medical attention and special treatment needed
- 4.3 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. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

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		white powder or clear liquid	Vapor Pressure	No data available.	
	Odor	Mild to none	1-1.1.	Vapor Density	No data available.	
	Odor Threshold	No data avai		Relative Density	No data available.	
	pH Melting / Freezing Point	No data avai No data avai		Solubility	No data available. No data available.	
	Boiling Point / Range	No data avai		Partition Coefficient	No data available.	
	Flash Point	No data avai		Auto ignition Temperature	No data available.	
	Evaporation Rate	No data avai		Decomposition Temperature Viscosity	No data available.	
	Flammability (Solid, Gas			Explosive Properties	No data available.	
	Upper / Lower Flammab	ility or		•		
	Explosive Limits	No data ava	ilable.	Oxidizing Properties	No data available.	
9.2	Other safety information	n				
	No data available.					
10.	STABILITY AND REAC	TIVITY				
10.1	Reactivity					
	-	ed transport or storage conditions				
10.2	Chemical stability					
10.2	-	ad atorogo populitiona				
40.0	Stable under recommend	-				
10.3	Possibility of hazardous					
		not occur under normal transport	or storage conditions. Decomp	position may occur on exposure to conditi	ons or materials listed below.	
10.4	Conditions to avoid					
	Heat, moisture.					
10.5	Incompatible materials					
	Strong acids/alkalis, stron	ng oxidizing/reducing agents.				
10.6	Hazardous decompositi	on products				
	Strong acids/alkalis, stron	ng oxidizing/reducing agents.				
11.	TOXICOLOGICAL INFO	ORMATION				
11.1	Information on toxicolog	gical effects				
	Acute Toxicity					
	Classified based on availa	able data.				
	Skin Corrosion / Irritatio	on				
	Classified based on availa	able data.				
	Serious Eye Damage / Ir					
	Classified based on availa					
	Respiratory or Skin Sen					
	Classified based on availa					
	Germ Cell Mutagenicity					
	Classified based on availa	able data.				
	Carcinogenicity					
	Classified based on availa	able data.				
	Reproductive Toxicity					
	Classified based on availa	able data.				
	Specific Target Organ T	oxicity - Single Exposure				
	Classified based on availa	able data.				
		oxicity - Repeated Exposure				
	Classified based on availa					
		able uala.				
	Aspiration Hazard	-11- 1-1-				
	Classified based on availa					
	Symptoms / Routes of E	-				
	Inhalation:	There may be irritation of the t		as in the chest.		
	Ingestion:	There may be irritation of the t				
	Skin:	There may be mild irritation at	the site of contact.			
	Skin: Eyes:	There may be mild irritation at There may be irritation and rea				

Additional Information

Classified based on available data.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

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

Contaminated Packaging

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

14. TRANSPORT INFORMATION

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.

15.1 1907/2006 and 29 CFR 1910.1200 [OSHA]

Safety, health and environmental regulations/legislation specific for the substance or mixture TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet.



1.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE CO	MPANY/UNDERTAKING	ì
1.1	Product Identifiers			
	Product Name:	Amplifier		
1.2	Relevant identified use	es of the substance or mixture and uses advise	dagainst	
	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 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
	Onited Ringdom.	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
1.4	Emergency Telephone	Shanghai	Email address	techsupport.cn@bio-techne.com
1.4			ITREC day or pight: Within	n LLS 1 800 262 8200 Worldwide 1 702 741 5500
	-	2-379-2956 or 800-343-7475 / Europe: +44(0)123		n U.S. 1-800-262-8200 Worldwide 1-703-741-5500
		2-013-2000 01 000-040-14107 Eulope. •44(0)120	0-0204407 Onina 00-400-4	021-0410
2.	HAZARDS IDENTIFIC	ATION		
2.1	Classification of the su	ubstance or mixture		
	This substance does no	t meet the classification criteria according to Regul	ation (EC) No 1272/2008 [[GHS/CLP] or 29 CFR 1910.1200 [OSHA].
2.2	Label Elements		. ,	
	The product does not ne	eed to be labelled in accordance with Regulation (E	C) No 1272/2008 [GHS/CI	LP] or 29 CFR 1910.1200 [OSHA].
2.3	Other Hazards - None	Č ,	, .	
		RMATION ON INGREDIENTS		
3.		RMATION ON INGREDIENTS		
3.1	Substances			
	Not applicable.			
3.2	Mixtures		·/ ··· ··· ··· ··· ··· ··· ··· ··· ···	
	I his product does not co	ontain nazardous chemicals at concentrations of 19	% or greater. This product i	is not known to contain carcinogens at concentrations of 0.1% or greater.
4.	FIRST AID MEASURE	S		
4.1	Description of first aid	measures		
	General Advice			
	Consult a doctor and sh	ow this safety data sheet.		
	If Inhaled			
	Remove to fresh air and	monitor breathing.		
	In Case of Skin Contac			
		d 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			
	Rinse mouth with water.	Consult a doctor if you feel unwell.		
4.2	Most important sympt	oms and effects, both acute and delayed		
	To the best of our knowl	edge, the chemical, physical and toxicological prop	perties have not been thoro	bughly investigated.
4.3	Indication of immediat	e medical attention and special treatment need	ed	
	Show this safety data sh	neet to the doctor in attendance. Immediate medica	I attention is required.	

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.

		ity or					
	Explosive Limits	No data available.	Oxidizing Properties	No data available.			
9.2	Other safety information						
	No data available.						
10.	STABILITY AND REACT	Ίνιτγ					
10.1	Reactivity						
	Stable under recommended	d 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.		RMATION					
11.1	TOXICOLOGICAL INFORMATION Information on toxicological effects						
	Information on toxicological effects Acute Toxicity						
	Classified based on available data.						
	Classified based on available data. Skin Corrosion / Irritation						
	Classified based on available data.						
	Serious Eye Damage / Irritation						
	Classified based on available data.						
	Respiratory or Skin Sensitization						
	Classified based on available data.						
	Germ Cell Mutagenicity Classified based on available data.						
	Classified based on available data. Carcinogenicity						
	Carcinogenicity Classified based on available data.						
	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 - Repeated Exposure						
	Classified based on available data.						
	Aspiration Hazard						
	Classified based on available data.						
	Symptoms / Routes of Exposure						
	Inhalation:	No known symptoms.					
	Ingestion: Skin:	No known symptoms. No known symptoms.					
	Skin: Eyes:	No known symptoms.					
	Delayed/Immediate Effects: No known symptoms.						
	Additional Information						
	Classified based on available data.						

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]

Safety, health and environmental regulations/legislation specific for the substance or mixture TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet

RD SYSTEMS a biotechne brand

	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE (COMPANY/UNDERTAKING						
1.1	Product Identifiers								
	Product Name:	Amplifier Diluent (contains Sodium Azide	< 0.1%)						
1.2	Relevant identified uses of the substance or mixture and uses advised against								
1.3	Identified Uses: For research use only.								
	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:	461 North Service Rd West	Telephone:	1-855-668-8722					
		Unit B37	Fax:	902-827-6402					
		Oakville, ON L6M 2V5	Email address:	Canada.inquiries@bio-techne.com					
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449					
	onited Hingdom.	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								
	-	y, spill, leak, fire, exposure, or accident call CHE							
	Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475								
	HAZARDS IDENTIFICATION								
2.	HAZARDS IDENTIFIC	ATION							
	HAZARDS IDENTIFIC Classification of the s								
	Classification of the s	ubstance or mixture	gulation (EC) No 1272/2008 [GI	HS/CLP] or 29 CFR 1910.1200 [OSHA].					
	Classification of the s This substance does no		gulation (EC) No 1272/2008 [GI	HS/CLP] or 29 CFR 1910.1200 [OSHA].					
2.1	Classification of the s This substance does no Label Elements	ubstance or mixture t meet the classification criteria according to Re							
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2.1 2.2	Classification of the s This substance does no Label Elements	ubstance or mixture t meet the classification criteria according to Re							
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2.1 2.2 2.3	Classification of the s This substance does no Label Elements The product does not n Other Hazards - None	ubstance or mixture t meet the classification criteria according to Re							
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2.1 2.2 3. 3.1 3.2 4.	Classification of the s This substance does not Label Elements The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASURE Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air and In Case of Skin Conta	ubstance or mixture it meet the classification criteria according to Re eed to be labeled in accordance with Regulation RMATION ON INGREDIENTS CAS No. EC No. 26628-22-8 247-852-1 ES measures ow this safety data sheet. d monitor breathing. ct	i (EC) No 1272/2008 [GHS/CLF	P] or 29 CFR 1910.1200 [OSHA]. Classification					
2.1 2.2 3. 3.1 3.2 4.	Classification of the s This substance does not Label Elements The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASURE Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air and In Case of Skin Contar Wash skin with soap an	ubstance or mixture t meet the classification criteria according to Re eed to be labeled in accordance with Regulation RMATION ON INGREDIENTS CAS No. EC No. 26628-22-8 247-852-1 ES measures ow this safety data sheet. d monitor breathing. ct d water. If irritation occurs, consult a doctor.	i (EC) No 1272/2008 [GHS/CLF	P] or 29 CFR 1910.1200 [OSHA]. Classification					
2.1 2.2 3. 3.1 3.2 4.	Classification of the s This substance does not Label Elements The product does not n Other Hazards - None COMPOSITION/INFO Substances Not applicable. Mixtures Component Sodium Azide FIRST AID MEASURE Description of first aid General Advice Consult a doctor and sh If Inhaled Remove to fresh air and In Case of Skin Contact	ubstance or mixture t meet the classification criteria according to Re eed to be labeled in accordance with Regulation RMATION ON INGREDIENTS CAS No. EC No. 26628-22-8 247-852-1 ES measures ow this safety data sheet. d monitor breathing. ct d water. If irritation occurs, consult a doctor.	Index No. 011-004-00-7	P] or 29 CFR 1910.1200 [OSHA]. Classification					

Rinse mouth with water. Consult a doctor if you feel unwell. Most important symptoms and effects, both acute and delayed

- 4.2 To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
 Indication of immediate medical attention and special treatment needed
- 4.3 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. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

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	•	No data available.					
	Odor	Mild to none	Vapor Density	No data available.					
	Odor Threshold	No data available.	Relative Density	No data available.					
	pH Malting / Excering Daint	No data available. No data available.	Solubility	No data available.					
	Melting / Freezing Point Boiling Point / Range	No data available.	Partition Coefficient	No data available. No data available.					
	Flash Point	No data available.	Auto ignition Temperature	No data available.					
	Evaporation Rate	No data available.	Decomposition Temperature 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								
5.2	-								
	No data available.								
10.	STABILITY AND REACTIVITY								
10.1	Reactivity								
	-	port or storage conditions							
10.2	Stable under recommended transport or storage conditions.								
10.2	Chemical stability								
	Stable under recommended storage	-							
10.3	Possibility of hazardous reactio	ns							
	Hazardous reactions will not occur	r under normal transport or storage conditions	. 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 oxidizi	ng/reducing agents.							
10.6	Hazardous decomposition prod								
	Strong acids/alkalis, strong oxidizi								
11.	TOXICOLOGICAL INFORMATI	ON							
11.1	Information on toxicological effe	ects							
	Acute Toxicity								
	Classified based on available data	I.							
	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. Gern Cell Mutagenicity Classified based on available data. Gernicogenicity Classified based on available data. Performation 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	l.							
	Symptoms / Routes of Exposure	9							
	Inhalation: There	e may be irritation of the throat with a feeling o	f tightness in the chest.						
	Ingestion: There	e 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.

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.

15.1 1907/2006 and 29 CFR 1910.1200 [OSHA]

Safety, health and environmental regulations/legislation specific for the substance or mixture TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet.