

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

### 1.1 Product Identifiers

Product Name: MycoProbe Mycoplasma Detection Kit  
 Catalog Number: CUL001B  
 Components: Hybridization Microplate  
 Cell Lysis Diluent  
 Sample Diluent  
 Anti-Digoxigenin-AP Conjugate (contains Proclin 300 Mixture)  
 Capture Probes  
 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 and Sodium Azide)

### 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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	<a href="http://www.rndsystems.com">www.rndsystems.com</a>
		Email address:	<a href="mailto:info@bio-techne.com">info@bio-techne.com</a>
Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	<a href="mailto:Canada.inquiries@bio-techne.com">Canada.inquiries@bio-techne.com</a>
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	<a href="mailto:info.emea@bio-techne.com">info.emea@bio-techne.com</a>
China:	1193 Changning Road Unit 1901, Raffles Changning Office Shanghai, China	Telephone:	86-400-821-3475
		Fax:	76 (021)52371001
		Email address:	<a href="mailto:techsupport.cn@bio-techne.com">techsupport.cn@bio-techne.com</a>

### 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 COMPANY/UNDERTAKING

### 1.1 Product Identifiers

Product Name: Hybridization Microplate

### 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 614 McKinley Place NE  Minneapolis, MN 55413, USA	Telephone: Fax:  Internet: Email address:	1-800-343-7475 1-612-656-4400  www.rndsystems.com info@bio-techne.com
Canada:	21 Canmotor Ave Toronto, ON M8Z 4E6	Telephone: Fax: Email address:	1-855-668-8722 902-827-6402 Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone: Fax: Email address:	44 (0)1235 529449 44 (0)1235 533420 info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles Changning Office  Shanghai, China	Telephone: Fax: Email address:	86-400-821-3475 76 (021)52371001 techsupport.cn@bio-techne.com

### 1.4 Emergency Telephone Number

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

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

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. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Not applicable.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General Advice

Not applicable.

#### If Inhaled

Not applicable.

#### In Case of Skin Contact

Not applicable.

#### In Case of Eye Contact

Not applicable.

#### If Swallowed

Not applicable.

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

Not applicable.

### 4.3 Indication of immediate medical attention and special treatment needed

Not applicable.

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## 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

None known..

### 5.3 Precautions for fire-fighters

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

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Not applicable.

### 6.2 Environmental precautions

Not applicable.

### 6.3 Methods and materials for containment and cleaning up

Not applicable.

### 6.4 Reference to other sections

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

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Not applicable.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry place.

### 7.3 Specific end uses

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

Not applicable.

#### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and 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.
pH	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.

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**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..

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

None known.

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**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: 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.

**Additional Information**

Classified based on available data

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**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	<b>Mobility in soil</b>
	No data available.
12.5	<b>Results of PBT and vPvB assessment</b>
	No data available.
12.6	<b>Other adverse effects</b>
	No data available.
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13.	<b>DISPOSAL CONSIDERATIONS</b>
13.1	<b>Waste treatment methods</b>
	<b>Product</b>
	Transfer to a suitable container and arrange for collection by a specialized disposal company in accordance with national, regional, or local legislation.
	<b>Contaminated Packaging</b>
	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.
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14.	<b>TRANSPORT INFORMATION</b>
	Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
14.1	<b>UN-Number</b>
	Does not meet the criteria for classification as hazardous for transport.
14.2	<b>UN proper shipping name</b>
	Does not meet the criteria for classification as hazardous for transport.
14.3	<b>Transport hazard class(es)</b>
	Does not meet the criteria for classification as hazardous for transport.
14.4	<b>Packaging group</b>
	Does not meet the criteria for classification as hazardous for transport.
14.5	<b>Environmental hazards</b>
	Does not meet the criteria for classification as hazardous for transport.
14.6	<b>Special precautions for users</b>
	Does not meet the criteria for classification as hazardous for transport.
	<b>Additional Transport Information</b>
	Does not meet the criteria for classification as hazardous for transport.
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15.	<b>REGULATORY INFORMATION</b>
	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	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
	<b>TSCA (Toxic Substances Control Act)</b> : Not applicable.
	<b>SARA 313</b> : Not applicable.
	<b>SARA 311/312</b> : Not applicable.
	<b>CERCLA Reportable Quantity</b> : Not applicable.
	<b>California Proposition 65</b> :
15.2	<b>Chemical safety assessment</b>
	A Chemical Safety Assessment has not been made for this product.
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16.	<b>OTHER INFORMATION</b>
	<b>Further Information</b>
	Copyright © 2024 R&D Systems, Inc. a Bio-Techne Brand
	This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.
	End of safety data sheet

**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**

Company:	R&D Systems, Inc. a Bio-Techne Brand 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		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



GHS07

Signal Word:

**Danger**

**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.

### 7.3 Specific end uses

## 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	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 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

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**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.

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**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.

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**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.

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## 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.

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## 16 OTHER INFORMATION

### Further Information

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

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

End of safety data sheet.

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

### 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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	21 Canmotor Avenue Toronto, Ontario M8Z4E6 Canada	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles City Changning Office Shanghai	Telephone:	86-400-821-3475
		Fax:	76 (021) 52371001
		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

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

### 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 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

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

## 5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing Media**  
**Suitable extinguishing media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture**  
In combustion, may emit toxic fumes.
- 5.3 Precautions for fire-fighters**  
Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.
- 

## **6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.
- 6.2 Environmental precautions**  
Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up**  
Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.
- 6.4 Reference to other sections**  
For required PPE see section 8. For disposal see section 13.
- 

## **7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.
- 7.3 Specific end uses**  
Not applicable.
- 

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**  
**Components with workplace 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**

<b>Appearance</b>	Lyophilized white powder or clear liquid.	<b>Vapor Pressure</b>	No data available.
<b>Odor</b>	Little to none.	<b>Vapor Density</b>	No data available.
<b>Odor Threshold</b>	No data available.	<b>Relative Density</b>	No data available.
<b>pH</b>	No data available.	<b>Solubility</b>	No data available.
<b>Melting / Freezing Point</b>	No data available.	<b>Partition Coefficient</b>	No data available.
<b>Boiling Point / Range</b>	No data available.	<b>Autoignition Temperature</b>	No data available.
<b>Flash Point</b>	No data available.	<b>Decomposition Temperature</b>	No data available.
<b>Evaporation Rate</b>	No data available.	<b>Viscosity</b>	No data available.
<b>Flammability (Solid, Gas)</b>	No data available.	<b>Explosive Properties</b>	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:	No known symptoms.		
	Ingestion:	No known symptoms.		
	Skin:	No known symptoms.		
	Eyes:	No known symptoms.		
	Delayed/Immediate Effects:	No known symptoms.		
	Additional Information	Classified based on available data.		
12.	ECOLOGICAL INFORMATION			
12.1	Toxicity	No data available.		
12.2	Persistence and degradability	No data available.		
12.3	Bio accumulative potential	No data available.		

- 12.4 Mobility in soil**  
No data available.
- 12.5 Results of PBT and vPvB assessment**  
No data available.
- 12.6 Other adverse effects**  
No data available.

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**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.

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**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.

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**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.

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**16. OTHER INFORMATION**

**Further Information**

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

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

End of safety data sheet

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

### 1.1 Product Identifiers

Product Name: Anti-Digoxigenin-AP Conjugate (contains Proclin 300 Mixture)

### 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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		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]

Sensitization, skin - Category 1

### 2.2 Label Elements

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

Pictogram(s):



Signal Word: Warning

Hazard Statement(s):

H317 May cause an allergic skin reaction.

Precautionary Statement(s):

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

### 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.
Proclin 300 Mixture = .005% (active ingredients)	96118-96-6			H317	
Mixture of 5-Chloro-2-Methyl-4-Isothiazolin-3-One (26172-55-4) and 2-Methyl-4-Isothiazolin-3-One (2682-20-4)	55965-84-9		613-167-00-5		<0.1%

## 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General Advice

Consult a doctor and show this safety data sheet.

##### If Inhaled

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

##### In Case of Skin Contact

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

##### In Case of Eye Contact

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

##### If Swallowed

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

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

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

#### 4.3 Indication of immediate medical attention and special treatment needed

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

---

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

##### Suitable extinguishing media

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

#### 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

#### 5.3 Precautions for fire-fighters

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

---

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

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

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

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

#### 6.4 Reference to other sections

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

---

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

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

#### 7.2 Conditions for safe storage, including any incompatibilities

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

#### 7.3 Specific end uses

Not applicable.

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### Components with workplace 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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

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

**9.2 Other safety information**

No data available.

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**10. STABILITY AND REACTIVITY****10.1 Reactivity**

Stable under recommended transport or storage conditions.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

**10.4 Conditions to avoid**

Heat, moisture.

**10.5 Incompatible materials**

Strong acids/alkalis, strong oxidizing/reducing agents.

**10.6 Hazardous decomposition products**

Strong acids/alkalis, strong oxidizing/reducing agents.

---

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute Toxicity**

Classified based on available data

**Skin Corrosion / Irritation**

Classified based on available data

**Serious Eye Damage / Irritation**

Classified based on available data

**Respiratory or Skin Sensitization**

Classified based on available data

**Germ Cell Mutagenicity**

Classified based on available data

**Carcinogenicity**

Classified based on available data

**Reproductive Toxicity**

Classified based on available data

**Specific Target Organ Toxicity - Single Exposure**

Classified based on available data

**Specific Target Organ Toxicity - Repeated Exposure**

Classified based on available data

**Aspiration Hazard**

Classified based on available data

**Symptoms / Routes of Exposure**

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion:	There may be irritation of the throat.
Skin:	There may be mild irritation at the site of contact.
Eyes:	There may be irritation and redness.
Delayed / Immediate Effects:	No known symptoms.

#### Additional Information

Classified based on available data

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 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.

End of safety data sheet

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

### 1.1 Product Identifiers

Product Name: Capture 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:	R&D Systems, Inc. a Bio-Techne Brand 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	21 Canmotor Avenue Toronto, Ontario M8Z4E6 Canada	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles City Changning Office Shanghai	Telephone:	86-400-821-3475
		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

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

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. 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 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

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

## 5. FIRE-FIGHTING MEASURES

5.1	<b>Extinguishing Media</b>		
	<b>Suitable extinguishing media</b>		
	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
5.2	<b>Special hazards arising from the substance or mixture</b>		
	In combustion, may emit toxic fumes.		
5.3	<b>Precautions for fire-fighters</b>		
	Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.		
6.	<b>ACCIDENTIAL RELEASE MEASURES</b>		
6.1	<b>Personal precautions, protective equipment and emergency procedures</b>		
	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	<b>Environmental precautions</b>		
	Do not let product enter drains.		
6.3	<b>Methods and materials for containment and cleaning up</b>		
	Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.		
6.4	<b>Reference to other sections</b>		
	For required PPE see section 8. For disposal see section 13.		
7.	<b>HANDLING AND STORAGE</b>		
7.1	<b>Precautions for safe handling</b>		
	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	<b>Conditions for safe storage, including any incompatibilities</b>		
	Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.		
7.3	<b>Specific end uses</b>		
	Not applicable.		
8.	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>		
8.1	<b>Control parameters</b>		
	<b>Components with workplace control parameters</b>		
	Contains no substances with occupational exposure limit values.		
8.2	<b>Exposure controls</b>		
	<b>Appropriate Engineering Controls</b>		
	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.		
	<b>Personal Protective Equipment</b>		
	<b>Eye / Face Protection</b>		
	Use appropriate safety glasses.		
	<b>Skin Protection</b>		
	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.		
	<b>Body Protection</b>		
	Wear appropriate protective clothing.		
	<b>Respiratory Protection</b>		
	If risk assessment indicates necessary, use a suitable respirator.		
9.	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>		
9.1	<b>Information on basic physical and chemical properties</b>		
	<b>Appearance</b>	Probes	<b>Vapor Pressure</b>
	<b>Odor</b>	Little to none.	<b>Vapor Density</b>
	<b>Odor Threshold</b>	No data available.	<b>Relative Density</b>
	<b>pH</b>	No data available.	<b>Solubility</b>
	<b>Melting / Freezing Point</b>	No data available.	<b>Partition Coefficient</b>
	<b>Boiling Point / Range</b>	No data available.	<b>Autoignition Temperature</b>
	<b>Flash Point</b>	No data available.	<b>Decomposition Temperature</b>
	<b>Evaporation Rate</b>	No data available.	<b>Viscosity</b>
	<b>Flammability (Solid, Gas)</b>	No data available.	<b>Explosive Properties</b>
			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:	No known symptoms.		
	Ingestion:	No known symptoms.		
	Skin:	No known symptoms.		
	Eyes:	No known symptoms.		
	Delayed/Immediate Effects:	No known symptoms.		
	Additional Information	Classified based on available data.		
12.	ECOLOGICAL INFORMATION			
12.1	Toxicity	No data available.		
12.2	Persistence and degradability	No data available.		
12.3	Bio accumulative potential	No data available.		

- 12.4 Mobility in soil**  
No data available.
- 12.5 Results of PBT and vPvB assessment**  
No data available.
- 12.6 Other adverse effects**  
No data available.

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**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.

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**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.

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**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.

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**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 COMPANY/UNDERTAKING

### 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:	R&D Systems, Inc. a Bio-Techne Brand 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	21 Canmotor Avenue Toronto, Ontario M8Z4E6 Canada	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles City Changning Office Shanghai	Telephone:	86-400-821-3475
		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 B  
io-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

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

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. 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 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

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

## 5. FIRE-FIGHTING MEASURES



5.1	<b>Extinguishing Media</b>		
	<b>Suitable extinguishing media</b>		
	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
5.2	<b>Special hazards arising from the substance or mixture</b>		
	In combustion, may emit toxic fumes.		
5.3	<b>Precautions for fire-fighters</b>		
	Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.		
6.	<b>ACCIDENTIAL RELEASE MEASURES</b>		
6.1	<b>Personal precautions, protective equipment and emergency procedures</b>		
	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	<b>Environmental precautions</b>		
	Do not let product enter drains.		
6.3	<b>Methods and materials for containment and cleaning up</b>		
	Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS.		
6.4	<b>Reference to other sections</b>		
	For required PPE see section 8. For disposal see section 13.		
7.	<b>HANDLING AND STORAGE</b>		
7.1	<b>Precautions for safe handling</b>		
	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	<b>Conditions for safe storage, including any incompatibilities</b>		
	Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.		
7.3	<b>Specific end uses</b>		
	Not applicable.		
8.	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>		
8.1	<b>Control parameters</b>		
	<b>Components with workplace control parameters</b>		
	Contains no substances with occupational exposure limit values.		
8.2	<b>Exposure controls</b>		
	<b>Appropriate Engineering Controls</b>		
	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.		
	<b>Personal Protective Equipment</b>		
	<b>Eye / Face Protection</b>		
	Use appropriate safety glasses.		
	<b>Skin Protection</b>		
	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.		
	<b>Body Protection</b>		
	Wear appropriate protective clothing.		
	<b>Respiratory Protection</b>		
	If risk assessment indicates necessary, use a suitable respirator.		
9.	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>		
9.1	<b>Information on basic physical and chemical properties</b>		
	<b>Appearance</b>	Probes	<b>Vapor Pressure</b>
	<b>Odor</b>	Little to none.	<b>Vapor Density</b>
	<b>Odor Threshold</b>	No data available.	<b>Relative Density</b>
	<b>pH</b>	No data available.	<b>Solubility</b>
	<b>Melting / Freezing Point</b>	No data available.	<b>Partition Coefficient</b>
	<b>Boiling Point / Range</b>	No data available.	<b>Autoignition Temperature</b>
	<b>Flash Point</b>	No data available.	<b>Decomposition Temperature</b>
	<b>Evaporation Rate</b>	No data available.	<b>Viscosity</b>
	<b>Flammability (Solid, Gas)</b>	No data available.	<b>Explosive Properties</b>
			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:	No known symptoms.		
	Ingestion:	No known symptoms.		
	Skin:	No known symptoms.		
	Eyes:	No known symptoms.		
	Delayed/Immediate Effects:	No known symptoms.		
	Additional Information	Classified based on available data.		
12.	ECOLOGICAL INFORMATION			
12.1	Toxicity	No data available.		
12.2	Persistence and degradability	No data available.		
12.3	Bio accumulative potential	No data available.		

- 12.4 **Mobility in soil**  
No data available.
- 12.5 **Results of PBT and vPvB assessment**  
No data available.
- 12.6 **Other adverse effects**  
No data available.

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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.

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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.

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15. **REGULATORY INFORMATION**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]

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

**SARA 313:** Not applicable.

**SARA 311/312:** Not applicable.

**CERCLA Reportable Quantity:** Not applicable.

**California Proposition 65:** Not applicable.

15.2 **Chemical safety assessment**

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

---

16. **OTHER INFORMATION**

**Further Information**

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

End of safety data sheet

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

### 1.1 Product Identifiers

Product Name: Positive Control

### 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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	21 Canmotor Avenue Toronto, Ontario M8Z4E6 Canada	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles City Changning Office Shanghai	Telephone:	86-400-821-3475
		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

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

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. 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 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

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.
pH	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.		
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:	No known symptoms.		
	Ingestion:	No known symptoms.		
	Skin:	No known symptoms.		
	Eyes:	No known symptoms.		
	Delayed/Immediate Effects:	No known symptoms.		
	Additional Information	Classified based on available data.		
12.	ECOLOGICAL INFORMATION			
12.1	Toxicity	No data available.		
12.2	Persistence and degradability	No data available.		
12.3	Bio accumulative potential	No data available.		

- 12.4 Mobility in soil**  
No data available.
- 12.5 Results of PBT and vPvB assessment**  
No data available.
- 12.6 Other adverse effects**  
No data available.

---

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

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

**Contaminated Packaging**

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

---

**14. TRANSPORT INFORMATION**

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.

End of safety data sheet

## 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 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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles City Changning Office Shanghai	Telephone:	86-400-821-3475
		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	<b>Specific end uses</b>		
	Not applicable.		
8.	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>		
8.1	<b>Control parameters</b>		
	<b>Components with workplace control parameters</b>		
	TLV- (USA)	Exposure Limit- 0.29 mg/m <sup>3</sup> Ceiling (as NaN <sub>3</sub> ) & 0.11 ppm Ceiling (vapor, as Hydrazoic acid)	Source - ACGIH - Threshold Limit Values - Ceilings (TLV-C)
8.2	<b>Exposure controls</b>		
	<b>Appropriate Engineering Controls</b>		
	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.		
	<b>Personal Protective Equipment</b>		
	<b>Eye / Face Protection</b>		
	Use appropriate safety glasses.		
	<b>Skin Protection</b>		
	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.		
	<b>Body Protection</b>		
	Wear appropriate protective clothing.		
	<b>Respiratory Protection</b>		
	If risk assessment indicates necessary, use a suitable respirator.		
9.	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>		
9.1	<b>Information on basic physical and chemical properties</b>		
	<b>Appearance</b>	Lyophilized white powder or clear liquid	<b>Vapor Pressure</b> No data available.
	<b>Odor</b>	Little to none	<b>Vapor Density</b> No data available.
	<b>Odor Threshold</b>	No data available.	<b>Relative Density</b> No data available.
	<b>pH</b>	No data available.	<b>Solubility(ies)</b> No data available.
	<b>Melting / Freezing Point</b>	No data available.	<b>Partition Coefficient</b> No data available.
	<b>Boiling Point / Range</b>	No data available.	<b>Autoignition Temperature</b> No data available.
	<b>Flash Point</b>	No data available.	<b>Decomposition Temperature</b> No data available.
	<b>Evaporation Rate</b>	No data available.	<b>Viscosity</b> No data available.
	<b>Flammability (Solid, Gas)</b>	No data available.	<b>Explosive Properties</b> No data available.
	<b>Upper / Lower Flammability or Explosive</b>	No data available.	<b>Oxidizing Properties</b> No data available.
9.2	<b>Other safety information</b>		
	No data available.		
	<b>Oxidizing Properties</b>		
	No data available.		
10.	<b>STABILITY AND REACTIVITY</b>		
10.1	<b>Reactivity</b>		
	Stable under recommended transport or storage conditions.		
10.2	<b>Chemical stability</b>		
	Stable under recommended storage conditions.		
10.3	<b>Possibility of hazardous reactions</b>		
	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.		
10.4	<b>Conditions to avoid</b>		
	Heat, moisture.		
10.5	<b>Incompatible materials</b>		
	Acids, metals, Copper, Lead, Brass, solder (in plumbing systems), Benzoyl Chloride and Potassium Hydroxide, Bromine, Carbon Disulfide.		
10.6	<b>Hazardous decomposition products</b>		
	None known.		
11.	<b>TOXICOLOGICAL INFORMATION</b>		
11.1	<b>Information on toxicological effects</b>		
	<b>Acute Toxicity</b>		
	Classified based on available data		
	<b>Skin Corrosion / Irritation</b>		
	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.

Delayed / 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.

**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**

UN3287

**14.2 UN proper shipping name**

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

**14.3 Transport hazard class(es)**

6.1

**14.4 Packaging group**

III

**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) :** 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.

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**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 COMPANY/UNDERTAKING**

**1.1 Product Identifiers**

Product Name: Stop Solution (contains Sulfuric Acid)

**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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	<a href="http://www.rndsystems.com">www.rndsystems.com</a>
		Email address:	<a href="mailto:info@bio-techne.com">info@bio-techne.com</a>
Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	<a href="mailto:Canada.inquiries@bio-techne.com">Canada.inquiries@bio-techne.com</a>
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	<a href="mailto:info.emea@bio-techne.com">info.emea@bio-techne.com</a>

**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 Causes severe skin burns and eye damage irritation.  
H318 Causes serious eye damage.

Precautionary Statement(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.

**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 ACCIDENTAL 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.

---

## 7 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

<b>Appearance</b>	Colorless liquid	<b>Vapor Pressure</b>	No data available.
<b>Odor</b>	Pungent	<b>Vapor Density</b>	No data available.
<b>Odor Threshold</b>	No data available.	<b>Relative Density</b>	No data available.
<b>pH</b>	~1	<b>Solubility(ies)</b>	Soluble
<b>Melting / Freezing Point</b>	No data available.	<b>Partition Coefficient</b>	No data available.
<b>Boiling Point / Range</b>	No data available.	<b>Autoignition Temperature</b>	No data available.
<b>Flash Point</b>	No data available.	<b>Decomposition Temperature</b>	No data available.
<b>Evaporation Rate</b>	No data available.	<b>Viscosity</b>	No data available.
<b>Flammability (Solid, Gas)</b>	No data available.	<b>Explosive Properties</b>	No data available.
<b>Upper / Lower Flammability or Explosive Limits</b>	No data available.	<b>Oxidizing Properties</b>	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**

II

**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.

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**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



## 15.2 Chemical safety assessment

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

---

## 16 OTHER INFORMATION

### Further Information

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

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

End of safety data sheet

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

### 1.1 Product Identifiers

Product Name: Substrate

### 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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone: Fax: Internet: Email address:	1-800-343-7475 1-612-656-4400 www.rndsystems.com info@bio-techne.com
Canada:	21 Canmotor Ave Toronto, ON M8Z 4E6	Telephone: Fax: Email address:	1-855-668-8722 902-827-6402 Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone: Fax: Email address:	44 (0)1235 529449 44 (0)1235 533420 info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles Changning Office Shanghai, China	Telephone: Fax: Email address:	86-400-821-3475 76 (021)52371001 techsupport.cn@bio-techne.com

### 1.4 Emergency Telephone Number

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

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

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. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Not applicable.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General Advice

Not applicable.

#### If Inhaled

Not applicable.

#### In Case of Skin Contact

Not applicable.

#### In Case of Eye Contact

Not applicable.

#### If Swallowed

Not applicable.

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

Not applicable.

### 4.3 Indication of immediate medical attention and special treatment needed

Not applicable.

---

## 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

None known..

### 5.3 Precautions for fire-fighters

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

---

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Not applicable.

### 6.2 Environmental precautions

Not applicable.

### 6.3 Methods and materials for containment and cleaning up

Not applicable.

### 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

Not applicable.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry place.

### 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

Not applicable.

#### 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	Substrate	Vapor Pressure	No data available.
Odor	Little to none	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	No data available.
pH	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 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..

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

None known.

**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: 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.

**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	<b>Mobility in soil</b> No data available.
12.5	<b>Results of PBT and vPvB assessment</b> No data available.
12.6	<b>Other adverse effects</b> No data available.
<hr/>	
13.	<b>DISPOSAL CONSIDERATIONS</b>
13.1	<b>Waste treatment methods</b> <b>Product</b> Transfer to a suitable container and arrange for collection by a specialized disposal company in accordance with national, regional, or local legislation. <b>Contaminated Packaging</b> Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.
<hr/>	
14.	<b>TRANSPORT INFORMATION</b> Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
14.1	<b>UN-Number</b> Does not meet the criteria for classification as hazardous for transport.
14.2	<b>UN proper shipping name</b> Does not meet the criteria for classification as hazardous for transport.
14.3	<b>Transport hazard class(es)</b> Does not meet the criteria for classification as hazardous for transport.
14.4	<b>Packaging group</b> Does not meet the criteria for classification as hazardous for transport.
14.5	<b>Environmental hazards</b> Does not meet the criteria for classification as hazardous for transport.
14.6	<b>Special precautions for users</b> Does not meet the criteria for classification as hazardous for transport. <b>Additional Transport Information</b> Does not meet the criteria for classification as hazardous for transport.
<hr/>	
15.	<b>REGULATORY INFORMATION</b> 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	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> <b>TSCA (Toxic Substances Control Act)</b> : Not applicable. <b>SARA 313</b> : Not applicable. <b>SARA 311/312</b> : Not applicable. <b>CERCLA Reportable Quantity</b> : Not applicable. <b>California Proposition 65</b> :
15.2	<b>Chemical safety assessment</b>  A Chemical Safety Assessment has not been made for this product.
<hr/>	
16.	<b>OTHER INFORMATION</b> <b>Further Information</b> Copyright © 2024 R&D Systems, Inc. a Bio-Techne Brand  This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.  End of safety data sheet

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

### 1.1 Product Identifiers

Product Name: Substrate Diluent (contains Sodium Azide < 0.1%)

### 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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles Changning Office Shanghai, China	Telephone:	86-400-821-3475
		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

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

### 2.2 The product does not need to be labeled in accordance with Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].

Other Hazards - None

### 2.3

## 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	Not hazardous at this concentration	< 0.1%

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General Advice

Consult a doctor and show this safety data sheet.

#### If Inhaled

Remove to fresh air and monitor breathing.

#### 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.

**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. **ACCIDENTAL RELEASE MEASURES**

6.1 **Personal precautions, protective equipment and emergency procedures**

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

6.2 **Environmental precautions**

Do not let product enter drains.

6.3 **Methods and materials for containment and cleaning up**

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

6.4 **Reference to other sections**

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

---

7. **HANDLING AND STORAGE**

7.1 **Precautions for safe handling**

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

7.2 **Conditions for safe storage, including any incompatibilities**

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

7.3 **Specific end uses**

Not applicable.

---

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control parameters**

**Components with workplace 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**

	<b>Appearance</b>	Lyophilized white powder or clear liquid	<b>Vapor Pressure</b>	No data available.
	<b>Odor</b>	Mild to none	<b>Vapor Density</b>	No data available.
	<b>Odor Threshold</b>	No data available.	<b>Relative Density</b>	No data available.
	<b>pH</b>	No data available.	<b>Solubility</b>	No data available.
	<b>Melting / Freezing Point</b>	No data available.	<b>Partition Coefficient</b>	No data available.
	<b>Boiling Point / Range</b>	No data available.	<b>Auto ignition Temperature</b>	No data available.
	<b>Flash Point</b>	No data available.	<b>Decomposition Temperature</b>	No data available.
	<b>Evaporation Rate</b>	No data available.	<b>Viscosity</b>	No data available.
	<b>Flammability (Solid, Gas)</b>	No data available.	<b>Explosive Properties</b>	No data available.
	<b>Upper / Lower Flammability or</b>			
	<b>Explosive Limits</b>	No data available.	<b>Oxidizing Properties</b>	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

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.

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## 15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]

### 15.1

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

**SARA 313:** Not applicable.

**SARA 311/312:** Not applicable.

**CERCLA Reportable Quantity:** Not applicable.

**California Proposition 65:** Not applicable.

### 15.2 Chemical safety assessment

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

---

## 16. OTHER INFORMATION

### Further Information

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

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

End of safety data sheet.

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

### 1.1 Product Identifiers

Product Name: Amplifier

### 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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	21 Canmotor Avenue Toronto, Ontario M8Z4E6 Canada	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles City Changning Office Shanghai	Telephone:	86-400-821-3475
		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

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

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. 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 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

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.
pH	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.		
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:	No known symptoms.		
	Ingestion:	No known symptoms.		
	Skin:	No known symptoms.		
	Eyes:	No known symptoms.		
	Delayed/Immediate Effects:	No known symptoms.		
	Additional Information	Classified based on available data.		
12.	ECOLOGICAL INFORMATION			
12.1	Toxicity	No data available.		
12.2	Persistence and degradability	No data available.		
12.3	Bio accumulative potential	No data available.		

- 12.4 **Mobility in soil**  
No data available.
- 12.5 **Results of PBT and vPvB assessment**  
No data available.
- 12.6 **Other adverse effects**  
No data available.

---

13. **DISPOSAL CONSIDERATIONS**

13.1 **Waste treatment methods**

**Product**

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

**Contaminated Packaging**

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

---

14. **TRANSPORT INFORMATION**

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

14.1 **UN-Number**

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

14.2 **UN proper shipping name**

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

14.3 **Transport hazard class(es)**

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

14.4 **Packaging group**

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

14.5 **Environmental hazards**

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

14.6 **Special precautions for users**

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

**Additional Transport Information**

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

---

15. **REGULATORY INFORMATION**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]

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

**SARA 313:** Not applicable.

**SARA 311/312:** Not applicable.

**CERCLA Reportable Quantity:** Not applicable.

**California Proposition 65:** Not applicable.

15.2 **Chemical safety assessment**

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

---

16. **OTHER INFORMATION**

**Further Information**

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

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

End of safety data sheet

## 1. 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

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 614 McKinley Place NE Minneapolis, MN 55413, USA	Telephone:	1-800-343-7475
		Fax:	1-612-656-4400
		Internet:	www.rndsystems.com
		Email address:	info@bio-techne.com
Canada:	461 North Service Rd West Unit B37 Oakville, ON L6M 2V5	Telephone:	1-855-668-8722
		Fax:	902-827-6402
		Email address:	Canada.inquiries@bio-techne.com
United Kingdom:	19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB	Telephone:	44 (0)1235 529449
		Fax:	44 (0)1235 533420
		Email address:	info.emea@bio-techne.com
China:	1193 Changning Road Unit 1901, Raffles Changning Office Shanghai, China	Telephone:	86-400-821-3475
		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

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

### 2.2 The product does not need to be labeled in accordance with Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].

Other Hazards - None

### 2.3

## 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	Not hazardous at this concentration	< 0.1%

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General Advice

Consult a doctor and show this safety data sheet.

#### If Inhaled

Remove to fresh air and monitor breathing.

#### 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.

**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. **ACCIDENTAL RELEASE MEASURES**

6.1 **Personal precautions, protective equipment and emergency procedures**

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

6.2 **Environmental precautions**

Do not let product enter drains.

6.3 **Methods and materials for containment and cleaning up**

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

6.4 **Reference to other sections**

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

---

7. **HANDLING AND STORAGE**

7.1 **Precautions for safe handling**

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

7.2 **Conditions for safe storage, including any incompatibilities**

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

7.3 **Specific end uses**

Not applicable.

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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.

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9. **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 **Information on basic physical and chemical properties**



<b>Appearance</b>	Lyophilized white powder or clear liquid	<b>Vapor Pressure</b>	No data available.
<b>Odor</b>	Mild to none	<b>Vapor Density</b>	No data available.
<b>Odor Threshold</b>	No data available.	<b>Relative Density</b>	No data available.
<b>pH</b>	No data available.	<b>Solubility</b>	No data available.
<b>Melting / Freezing Point</b>	No data available.	<b>Partition Coefficient</b>	No data available.
<b>Boiling Point / Range</b>	No data available.	<b>Auto ignition Temperature</b>	No data available.
<b>Flash Point</b>	No data available.	<b>Decomposition Temperature</b>	No data available.
<b>Evaporation Rate</b>	No data available.	<b>Viscosity</b>	No data available.
<b>Flammability (Solid, Gas)</b>	No data available.	<b>Explosive Properties</b>	No data available.
<b>Upper / Lower Flammability or Explosive Limits</b>	No data available.	<b>Oxidizing Properties</b>	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

Classified based on available data.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bio accumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

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## 13. 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.

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## 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.

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## 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.

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## 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.