

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

### 1.1 Product Identifiers

Product Name: Trypsin 0.05% – EDTA 0.53 mM (1X)  
Catalog Number: B81110

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: For *In Vitro* 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 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

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

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

Not a hazardous substance or mixture.

### 2.2 Label Elements

Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]

Not a hazardous substance or mixture.

### 2.3 Other Hazards

None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Trypsin

### 3.2 Mixtures

Component	CAS No.	EC No.	Index No.	Classification	Conc.
Trypsin	9002-07-7				0.05%

## 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

Wash off with plenty of soap and water.

#### In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Remove contact lenses if easy to do so. 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**

The most important known symptoms and effects are described in the labeling section (section 2)

**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.

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**5. FIRE-FIGHTING MEASURES**

**5.1 Extinguishing Media**

**Suitable extinguishing media**

Dry chemical, Carbon Dioxide, water spray, or alcohol-resistant foam.

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

No data available.

**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. ACCIDENTIAL RELEASE MEASURES**

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

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**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.

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**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Avoid inhalation, contact with eyes, skin and clothing. Use in a well-ventilated area. Do not eat, drink, or smoke in laboratory areas.

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

Store in cool, well-ventilated area. Store locked up. Keep container tightly closed in a dry and well-ventilated place. Open containers must be carefully resealed and kept upright to prevent leakage.

**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**

No data available.

**8.2 Exposure controls**

**Appropriate Engineering Controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**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>	Liquid.	<b>Vapor Pressure</b>	No data available.
	<b>Odor</b>	No data available.	<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.
	<b>Upper / Lower Flammability or Explosive Limits</b>	No data available.	<b>Oxidizing Properties</b>	No data available.
9.2	<b>Other safety information</b>			
	No data available.			
10.	<b>STABILITY AND REACTIVITY</b>			
10.1	<b>Reactivity</b>			
	No data available.			
10.2	<b>Chemical stability</b>			
	Stable under recommended storage conditions.			
10.3	<b>Possibility of hazardous reactions</b>			
	No data available.			
10.4	<b>Conditions to avoid</b>			
	Heat and flames.			
10.5	<b>Incompatible materials</b>			
	Strong Oxidizing agents.			
10.6	<b>Hazardous decomposition products</b>			
	No data available.			
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.			
	<b>Serious Eye Damage / Irritation</b>			
	Classified based on available data.			
	<b>Respiratory or Skin Sensitization</b>			
	Classified based on available data.			
	<b>Germ Cell Mutagenicity</b>			
	Classified based on available data.			
	<b>Carcinogenicity</b>			
	Classified based on available data.			
	<b>Reproductive Toxicity</b>			
	Classified based on available data.			
	<b>Specific Target Organ Toxicity - Single Exposure</b>			
	Classified based on available data.			
	<b>Specific Target Organ Toxicity - Repeated Exposure</b>			
	Classified based on available data.			
	<b>Aspiration Hazard</b>			
	Classified based on available data.			
	<b>Symptoms / Routes of Exposure</b>			
	Classified based on available data.			
	<b>Additional Information</b>			
	Classified based on available data.			
12.	<b>ECOLOGICAL INFORMATION</b>			
12.1	<b>Toxicity</b>			

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**

No data available.

**Additional Transport Information**

No data available.

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**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**TSCA (Toxic Substances Control Act):** Trypsin is not listed.

**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.