

# SAFETY DATA SHEET

## IMPATh TR ENZYME



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Issued: 11/08/2012

Revision No: 1

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

#### 1.1 Product identifier

Product: ImPath TR Enzyme  
Catalog No.: 46119

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

Recommended use: Immunohistochemistry (IHC)

#### 1.3 Details of the supplier of the safety data sheet

MANUFACTURER	EMAIL ADDRESS
PathCom Systems, Inc. 6759 Sierra Ct. Ste#B Dublin, CA 94568	info@pathcomx.com

#### DISTRIBUTOR

**Menarini Diagnostics LTD**  
405 Wharfedale Road,  
Winnersh-Workingham  
Berkshire RG415RA

#### 1.4 Emergency telephone number

Tel. 925-829-5500 (9 am-6 pm PST, M-F)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified
Human health	Not classified
Environment	Not classified

Classification (1999/45/EEC)

Not classified

#### 2.2 Label elements

Contains

Label In Accordance With (EC) No. 1272/2008

Not classified

Supplemental Label Information (EU)

EUH210

Safety data sheet available on request.

#### 2.3 Other information

None

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

SODIUM AZIDE	<0.1%
CAS:26628-22-8	EC No.: 247-852-1

Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox.2 H300	R27/28,R32, R50/53
Acute Tox.1 H310	
Aquatic Acute 1 H400	
Aquatic Chronic 1 H410	

HYDROCHLORIC ACID	<1%
CAS:7647-01-0	EC No: 231-595-7

Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 3 H331	C,R34, R37
Skin Corr. 1A H314	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### Inhalation

In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration. Get medical attention immediately!

##### Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

##### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

##### Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Obtain medical attention and bring these instructions.

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

##### Inhalation.

May cause coughing or mild irritation.

##### Ingestion

May cause discomfort if swallowed.

##### Skin contact

Skin contact may cause redness and irritation.

##### Eye contact

May cause eye irritation.

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

No specific first aid measures noted.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

##### Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

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

##### Hazardous Combustion Products

None under normal conditions.

##### Unusual Fire & Explosion Hazards

None.

#### 5.3. Advice for firefighters

##### Special Fire Fighting Procedures

No specific fire fighting procedure given.

##### Protective Measures In Fire

Use protective equipment appropriate for surrounding materials.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Avoid inhalation of spray mist and contact with skin and eyes. Use protective gloves, goggles and suitable protective clothing. For personal protection, see section 8.

#### 6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

#### 6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb spillage with suitable absorbent material. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

#### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

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

Keep in original container. Store at specified temperature. Refer to product label.

Storage Class: Refer to product datasheet.

#### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Name: HYDROCHLORIC ACID  
Workplace Exposure Limit UK - 8 hour TWA: 2 mg/m<sup>3</sup> UK - 15 min. STEL: 8 mg/m<sup>3</sup>

#### 8.2. Exposure controls

##### Protective equipment

Impermeable gloves and safety glasses

##### Process conditions

Provide eyewash station.

##### Engineering measures

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray.

##### Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

##### Hand protection

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

##### Eye protection

If risk of splashing, wear safety goggles or face shield.

##### Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

##### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

##### Skin protection

Wear apron or protective clothing in case of contact. Wash contaminated clothing before reuse.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Light blue
Odour	Odorless
pH	2.0
Solubility	soluble in water.
Initial boiling point and boiling range	Not determined
Melting point (°C)	Not determined
Relative density	Not determined
Vapour density (air=1)	Not determined
Vapour pressure	Not determined
Evaporation rate	Not determined
Viscosity	Not determined
Solubility Value (G/100G H <sub>2</sub> O@20°C)	Not determined
Decomposition temperature (°C)	Not determined
Flash point	Not applicable
Auto Ignition Temperature (°C)	Not determined
Flammability Limit - Lower(%)	Not applicable
Flammability Limit - Upper(%)	Not applicable
Partition Coefficient (N-Octanol/Water)	Not determined

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Explosive properties Not applicable  
Oxidising properties Does not meet the criteria for oxidizing

### 9.2. Other information

None

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

Not determined

### 10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

### 10.5. Incompatible materials

Materials To Avoid Strong alkalis

### 10.6. Hazardous decomposition products

None under normal conditions

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxicological information	No information available
Acute Toxicity (Oral LD50)	Not determined
Skin Corrosion/Irritation:	
Human Skin Model Test	Not determined
Serious eye damage/irritation:	
Moderate eye irritation	Not determined
Respiratory sensitization	Did not cause sensitization on laboratory animals
Skin sensitization	Did not cause sensitization on laboratory animals
Germ cell mutagenicity (In Vitro):	Not mutagenic in Ames Test
Carcinogenicity	Not determined
Reproductive Toxicity – Fertility	Not determined
Specific target organ toxicity - single exposure:	
STOT - Single exposure	Not determined
Specific target organ toxicity - repeated exposure:	
STOT - Repeated exposure	Not determined
Aspiration hazard	Not determined
Inhalation	
	May be harmful if inhaled. Causes respiratory tract irritation
Ingestion	
	May be harmful if swallowed.
Skin contact	
	May be harmful if absorbed through skin. Causes skin irritation.
Eye contact	
	Causes eye irritation.
Health Warnings	
	Known or suspected mutagen. Known or suspected carcinogen for humans.
Route of entry	
	Ingestion. Skin and/or eye contact.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity There are no data on the ecotoxicity of this product.

### 12.1. Toxicity

Acute Fish Toxicity LC50 – 1108 ppm/1h

### 12.2. Persistence and degradability

#### Degradability

This product is expected to be readily biodegradable.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

#### Mobility:

The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

Not determined

## SECTION 13: DISPOSAL CONSIDERATIONS

### General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORTATION INFORMATION

### General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA,ADR/RID).

Road Transport Notes	Not Classified
Rail Transport Notes	Not classified
Sea Transport Notes	Not classified
Air Transport Notes	Not classified

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

### 14.6. Special precautions for user

None

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### SECTION 15: REGULATORY INFORMATION

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

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EU) No 453/2010 of 20 May 2010 Annex II and Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

### SECTION 16: OTHER INFORMATION

General information only trained personnel should use this material.

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Risk Phrases In Full

R27	Very toxic in contact with skin
R28	Very toxic if swallowed
R32	Contact with acids liberates very toxic gas
R34	Causes burns by radioactive decay
R37	Irritating to respiratory system
R50	Very toxic to aquatic organisms
R53	May cause long-term adverse effects in the aquatic environment

Hazard Statements In Full

H300	Fatal if swallowed
H310	Acute toxicity (dermal),
H331	Acute toxicity (inhale)
H314	Causes severe skin burns and eye damage
H400	Hazardous to the aquatic environment
H410	Very toxic to aquatic life with long lasting effects

#### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.