

## SAFETY DATA SHEET

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

#### 1.1. Product identifiers

Product name: Trypsin powder (1:250), from porcine pancreas  
Product number: P10-025025P, P10-025100P, P10-025500P

Brand: PAN Biotech

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

Identified uses: Laboratory chemicals, Manufacture of substances

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

Company: PAN Biotech GmbH  
Am Gewerbepark 6  
94501 Aidenbach  
GERMANY

Telephone: +49-(0)8543-6016-30

Fax: +49-(0)8543-6016-49

E-mail: info@pan-biotech.de

#### 1.4. Emergency telephone number

Emergency phone: +49-(0)8543-6016-30 or +49 151 51557123

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Hazard Class	Abbreviation	Category	Hazard Statement
Skin corrosion/irritation	Skin Irrit.	2	H319
Serious eye damage/eye irritation	Eye Irrit.	2	H335
Respiratory sensitization	Resp. Sens.	1	H315
Specific target organ toxicity -single exposure	STOT SE	3	H334

## 2.2. Label Elements

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

- Hazard pictograms: GHS 08; GHS 07



- Signal word: **Danger**
- Hazard Statements:
  - H315: Causes skin irritation
  - H319: Causes serious eye irritation.
  - H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H335: May cause respiratory irritation
- Precautionary Statements:
  - P280: Wear protective gloves/protective clothing/eye protection/face protection
  - P261: Avoid breathing dust/fume/gas/mist/vapors/spray
  - P264: Wash hands thoroughly after handling
  - P284: In case of inadequate ventilation wear respiratory protection
  - P271: Use only outdoors or in a well-ventilated area
  - P261: Avoid breathing dust.
  - P302 + P352: IF ON SKIN: Wash with plenty of soap and water
  - P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
  - P332 + P313: If skin irritation occurs: Get medical advice/attention
  - P337 + P313: If eye irritation persists: Get medical advice/attention.
  - P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or physician.
  - P403 + P233: Store in a well-ventilated place. Keep container tightly closed
  - P501: Dispose of contents/ container to an approved waste disposal plant

## 2.3. Other hazards

none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Substance Name	CAS No	EG-No	Index-No	Weight %	Classification according to Regulation (EC) No 1278/2008 (CLP)
Trypsin	9002-07-7	232-650-8	647-010-00-7	<= 100%	Skin Irrit.2 H319 Eye Irrit. 2 H335 Resp. Sens. 1 H315 STOT SE 3 H334

#### **4. FIRST AID MEASURES**

##### **4.1. Description of first aid measures**

###### **General remarks**

Do not leave the victim unattended. Remove victim from the danger zone. Keep the victim calm, cover and keep warm. Remove soiled/soaked clothing immediately. If symptoms occur or if in doubt, seek medical attention. If unconscious, place in recovery position and do not administer anything by mouth.

###### **If inhaled**

If breathed in, move person into fresh air. If breathing becomes difficult, call a physician. If not breathing, give artificial respiration. Get medical advice/attention.

###### **In case of skin contact**

In case of contact, immediately wash skin with soap and copious amounts of water. Get medical advice/attention.

###### **In case of eye contact**

In case of contact with eyes, flush with copious amounts of water, remove contact lenses if present and easy to do and continue rinsing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical advice/attention.

###### **If swallowed**

If Swallowed, call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth, if victim is conscious. Do not induce vomiting

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

H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation  
H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

No information available.

#### **5. FIREFIGHTING 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

##### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

#### **6. ACCIDENTAL RELEASE MEASURES**

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

Avoid breathing vapors, mist or gas.

##### **6.2. Environmental precautions**

Do not let product enter drains

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

Keep in suitable, closed containers for disposal.

##### **6.4. Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

## **7. HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Normal measures for preventive fire protection.

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

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.

**Recommended storage temperature: 2-8 °C**

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

No further information available.

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

### **8.1. Control parameters**

Components with workplace control parameters: not required

### **8.2. Exposure controls**

#### **Appropriate engineering controls**

General industrial hygiene practice. Ensure adequate ventilation, especially in confined areas.

#### **Personal protective equipment**

##### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### **Body Protection**

Use impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection**

Use respiratory protection filter and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

Do not let product enter drains

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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

<b>Appearance Form:</b>	powder
<b>Odour</b>	no data available
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Melting point/freezing point</b>	no data available
<b>Initial boiling point and boiling range</b>	no data available

<b>Flammability</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Flash point</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	no data available
<b>Relative density</b>	no data available
<b>Water solubility</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Auto-ignition temperature</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Stable under recommended storage conditions

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information of toxicological effects

#### Acute toxicity

**LD50 (oral, rat) >5g/kg**

#### Skin corrosion/irritation

Cause skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Inhalation:

Irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Ingestion:

May be harmful if swallowed.

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

##### IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

<b>Reproductive toxicity</b>	no data available
<b>Specific target organ toxicity - single exposure</b>	no data available
<b>Specific target organ toxicity - repeated exposure</b>	no data available
<b>Aspiration hazard</b>	no data available

**Additional Information**

RTECS: Not available

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

## **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**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6. Other adverse effects**

No data available

## **13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

**14.1. UN number**

ADR/RID: -

IMDG: -

IATA: -

**14.2. UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3. Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4. Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**14.5. Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6. Special precautions for user**

No data available

## **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available

### **15.2. Chemical Safety Assessment**

No data available

## **16. OTHER INFORMATION**

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PAN Biotech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.pan-biotech.com](http://www.pan-biotech.com) or reverse side of invoice or packing slip for additional terms and conditions of sale.