

MATERIAL SAFETY DATA SHEET

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

Product identifiers

Product name: Trypsin powder (from porcine pancreas)
Product number: P10-025025P, P10-025100P, P10-025500P
Brand: PAN Biotech

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

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company: PAN Biotech GmbH
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GERMANY
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Emergency telephone number

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

2. HAZARDS IDENTIFICATION

Classification in accordance to Regulation (EC) no 1272/2008

Eye irritation (Category 2), H315
Specific target organ toxicity -single exposure (Category 3), H335
Skin irritation (Category 2), H315
Respiratory sensitization (Category 1), H334

Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word: Warning

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

P261 Avoid breathing dust.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or physician.
Supplemental Hazard Statements: none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS-No.	EG-No.	Index No.	Classification	Concentration
Trypsin	9002-07-7	232-650-8	647-010-00-7	Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; H315, H319, H334, H335	<= 100%

P10-025025P
P10-025100P
P10-025500P

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance

Skin contact

Wash off with soap and plenty of water. Consult a physician.

Eye contact

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

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation

If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Notes to physician

Treat symptomatically.

5. FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Special Protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid formation of dust and aerosols Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes, skin, and clothing.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Store at -20°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

Face shield and safety glasses. 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

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

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to engine 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)

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	powder
Colour	beige
pH	No data available
BP/BP Range	No data available
MP/MP Range	No data available
Flash Point	No data available
Flammability	No data available
Autoignition Temp	No data available
Oxidizing Properties	No data available
Explosive Properties	No data available
Explosion Limits	No data available
Vapor Pressure	No data available
Partition Coefficient n-Octanol/water	No data available
Viscosity	No data available
Vapor Density	No data available
Saturated Vapor Conc.	No data available
Evaporation Rate	No data available
Relative Density	No data available
Decomposition Temp.	No data available
Solvent Content	No data available
Water Content	No data available
Surface Tension	No data available
Conductivity	No data available
Solubility	No data available

10. STABILITY AND REACTIVITY

Storage stability	Stable under recommended storage conditions.
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	Nature of decomposition products not known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - rat - > 5.000 mg/kg
Skin irritation and corrosion	no data available
Serious eye damage/irritation	no data available
Sensitisation	May cause allergic respiratory and skin reactions
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.

Reproductive toxicity no data available

Specific target organ toxicity – single exposure No data available

Specific target organ toxicity – repeated exposure No data available

Additional Information

RTECS: YN5075000

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

investigated.

Liver – Irregularities – Based on Human Evidence

12. ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

Results of PBT and vPvB assessment

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

UN number

ADR/RID: -

IMDG: -

IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

Packaging group

ADR/RID: -

IMDG: -

IATA: -

Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special precautions for user

no data available

15. REGULATORY INFORMATION

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

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

No data available

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 or reverse side of invoice or packing slip for additional terms and conditions of sale.