

MATERIAL SAFETY DATA SHEET

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

Product identifiers

Product name: Dispase II (Neutral Protease, Grade II) From Bacillus Polymyxa in PBS,
w/o: Ca, Mg, 2.4 U/ml
Product number: P10-032100
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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Emergency telephone number

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Respiratory sensitization (Category 1)

Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word: Danger

Hazard statement(s)

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P285: In case of inadequate ventilation wear respiratory protection.

P304 + P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Supplemental Hazard Statements

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No. | EC-No. | Classification | Concentration % |
|------------------------------------|------------|-----------|---------------------|-----------------|
| Protease from Bacillus polymyxa | 42613-33-2 | 255-914-4 | Resp. Sens. 1; H334 | >0.1 - ≤ 1% |

4. FIRST AID MEASURES

If inhaled

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

In case of skin contact

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

In case of eye contact

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

If swallowed

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

Most important symptoms and effects, both acute and delayed

Prolonged or repeated exposure can cause: asthma

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

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

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

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

Recommended storage temperature: -20°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

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

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 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|-------------------|
| Appearance | Form: Liquid |
| 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

| | |
|---|-------------------------|
| Reactivity | No data available |
| Chemical stability | No data available |
| Possibility of hazardous reactions | No data available |
| Conditions to avoid | No data available |
| Incompatible materials | Strong oxidizing agents |
| Hazardous decomposition products | No data available |

11. TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Information on toxicological effects | |
| Acute toxicity | No data available |
| Skin corrosion/irritation | No data available |
| Serious eye damage/eye irritation | No data available |
| Respiratory or skin sensitization | May cause allergic respiratory reaction. |
| 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 May cause respiratory irritation.
Specific target organ toxicity - repeated exposure No data available
Aspiration hazard No data available
Potential health effects
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes serious eye irritation.
Signs and Symptoms of Exposure Prolonged or repeated exposure can cause: asthma
Additional Information
RTECS: Not available

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 No data available
Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

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.

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

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

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

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.