

**MATERIAL SAFETY DATA SHEET**  
According to 1907/2006/EG

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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- 1.1 Product name / Code: PAI Protein (500 U) REF TC41067
- 1.2. Recommended use: For research use only
- 1.3. Manufacturer: Technoclone GmbH  
Brunner Str. 59/5  
1230 Vienna  
AUSTRIA  
Tel. + 43 1 86373 - 0  
Fax + 43 1 86373 - 44
- 1.4 Emergency Email: sales@technoclone.com
- 1.5 Emergency Phone: +43 1 86373 -10 (08:00 – 16:00 h)

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**2. HAZARDS IDENTIFICATION**

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- 2.1 General information: All products of biological origin should be considered as potentially hazardous and handled with care according to existing biosafety rules (see also 8. and 13.).

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**3. COMPOSITION, INFORMATION ON INGREDIENTS**

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- 3.1 Article contains:  
Purified Protein from E.coli cells  
Sodium phosphate  
Sodium chloride
- Hazard classification: None  
CAS No. None

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**4. FIRST-AID MEASURES**

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- 4.1 General: Miscible with water.
- 4.2 Eyes: Flush eyes with water. If persistent irritation occurs, seek medical advice.
- 4.3 Skin contact: Wash with water.
- 4.4 Ingestion: Wash mouth thoroughly with water and drink water. If substance has been swallowed, drink large quantities of water.
- 4.5 Inhalation: Fresh air, keep airways free.

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**5. FIRE-FIGHTING MEASURES**

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- 5.1 Extinguishing media: Use extinguishing media appropriate for surrounding fire.
- 5.2 Flammable properties: Not combustible

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**6. ACCIDENTAL RELEASE MEASURES**

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|-----|-----------------------|--|
| 6.1 | Personal precautions: | Wear gloves, avoid substance contact.  |
| 6.2 | Cleanup procedures:   | Take up with liquid absorbent material.<br>Forward for disposal.<br>Clean up affected area using suitable disinfectants (e.g. 70% Ethanol, 0.5% sodium hypochlorite solution). |

**7. HANDLING AND STORAGE**

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|-----|-----------------------|------------------------|
| 7.1 | Handling precautions: | No special precautions |
| 7.2 | Storage precautions:  | Store at +2 – 8 °C.    |

**8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

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|-----|---|---|
| 8.1 | General protective and hygienic measures: | The usual precautionary measures are to be adhered to when handling biological material.  |
| 8.2 | Eye protection:                           | Eye protection is recommended.  |
| 8.3 | Protection of hands:                      | The glove material has to be impermeable and resistant to the product/the substance/the preparation.<br>Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture  |
|     | Material of gloves:                       | The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application |
|     | Penetration time of glove material:       | The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.  |
| 8.4 | Ventilation:                              | No particular ventilation requirements.   |
| 8.5 | Protective clothing:                      | Protective clothing is not necessary.   |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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|-----|-------------------|---------------------|
| 9.1 | Appearance:       | Solid               |
| 9.2 | Color:            | Colorless           |
| 9.3 | Solubility:       | Miscible with water |
| 9.4 | Specific gravity: | Not applicable      |
| 9.5 | pH-value:         | pH 6 to pH 8        |

**10. STABILITY AND REACTIVITY**

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|------|------------|----------------------|
| 10.1 | Stability: | No stabilizers added |
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**11. TOXICOLOGICAL INFORMATION**

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11.1	Acute Toxicity:	not known
11.2	Skin Effects:	not known
11.3	Eye Effects:	not known

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**12. ECOLOGICAL INFORMATION**

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12.1	Summary:	This product is readily miscible with water, rapidly degraded and biodegradable. Low bioaccumulation potential.
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**13. DISPOSAL CONSIDERATION**

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13.1	General information:	Disposal should be made in accordance with existing local disposal practices for biological material.
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**14. TRANSPORT INFORMATION**

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14.1	General Information:	Transportation of the product is not regulated by ADR. Fragile containers, handle with care.
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**15. REGULATORY INFORMATION**

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15.1	Safety rules:	This product is not in accordance with danger material regulation and the appropriate European Union guidelines marking requiring. Keep Containers closed. Keep away from food and beverages. Avoid contact with the skin.
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**16. OTHER INFORMATION**

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This Safety Data Sheet complies with the European Community Directive 1907/2006/EG.

All information and instructions provided in this Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on this Safety Data Sheet. Technoclone GmbH shall not be held responsible for any defect in the product covered by this Safety Data Sheet, should the existence of such a defect not be detectable considering the current state of scientific and technical knowledge.

It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.