

**Trypsin 1:250 powder (porcine)**
**PM-T1757**
**SECTION 1 Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

**Identification of the product** : Powder.  
**Trade name** : Trypsin 1:250 powder (porcine)  
**CAS number** : 1405-41-0

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

**Use** : Biotechnological industry.

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

**Company identification** : BIOSERA FRANCE  
 ZI du Bousquet  
 31360 BOUSSENS FRANCE  
 +33(0)5.61.97.69.69

**Name and function of the responsible person**: H el ene Royer - Quality Manager - email : h.royer@biowest.net

**1.4. Emergency telephone number**

**Phone nr** : ORFILA : + 33 (0)1 45 42 59 59

**SECTION 2 Hazards identification**
**2.1. Classification of the substance or mixture**
**Classification EC 67/548 or EC 1999/45**

**Classification** : Xn ; R42

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

**Health hazards** : Skin irritation - Category 2 - Warning - (CLP : Skin Irrit. 2) - H315  
 Eye irritation - Category 2A - Warning - (CLP : Eye Irrit. 2) - H319  
 Respiratory sensitization - Category 1 - Danger - (CLP : Resp. Sens. 1) - H334  
 Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -  
 Category 3 - Warning (CLP : STOT SE 3)

**2.2. Label elements**
**Labelling Regulation EC 1272/2008 (CLP)**
**Health hazards**

**Hazard pictograms**

: SGH08

**Signal words**

: Danger  
Warning

**Hazard statements**

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

**Precautionary statements**
**Prevention**

: P261 - Avoid breathing .  
 P280 - Wear .  
 P264 - Wash thoroughly after handling.

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**SECTION 2 Hazards identification (continued)**

- Response** : P337+P313 - If eye irritation persists: Get medical advice/attention  
P321 - Specific treatment (see on this label)
- Disposal considerations** : P501 - Dispose of contents/container to .
- 2.3. Other hazards**
- Other hazards** : None under normal conditions.

**SECTION 3 Composition/information on ingredients**
**3.1./3.2. Substance / Preparation**

**Components** : This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	REACH	Classification
Trypsin	:	9002-07-7	232-650-8	647-010-00-7	----	Xi; R36/37/38 R42 ----- Resp. Sens. 1:H334 Eye Irrit. 2:H319 Skin Irrit. 2:H315 STOT SE3:H335

**SECTION 4 First aid measures**
**4.1. Description of first aid measures**
**First aid measures**

- **Inhalation** : Assure fresh air breathing.  
If you feel unwell, seek medical advice (show the label where possible).
- **Eye contact** : Rinse immediately with plenty of water.  
Seek medical advice.
- **Ingestion** : Ingestion unlikely. Rinse mouth.

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

Redness.

Irritation.

Exposure may produce cough, mucous, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

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

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

**SECTION 5 Firefighting measures**
**5.1. Extinguishing media**

**Special hazards arising from the substance or mixture**

**Extinguishing media** : All extinguishing media can be used.

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

Exposure may produce an allergic reaction.

**5.3. Advice for firefighters**

- Protection against fire** : Wear proper protective equipment.
- Special procedures** : Exercise caution when fighting any chemical fire.

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**SECTION 5 Firefighting measures (continued)**

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

**SECTION 6 Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** : Equip cleanup crew with proper protection.  
Evacuate and limit access.  
Minimize generation of dust.

**6.2. Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters.

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

**Clean up methods** : Collect spills and put it into appropriated container.

**6.4. Reference to other sections**

Section 13

**SECTION 7 Handling and storage**
**7.1. Precautions for safe handling**

**General Handling** : Use good housekeeping practices to avoid rendering dust airborne.  
: Where contact with eyes or skin is likely, wear suitable protection.  
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

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

**Storage**  
**Storage** : Provide adequate ventilation to minimize dust concentrations. Keep container closed when not in use.

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

No data available.

**SECTION 8 Exposure controls/personal protection**
**8.1. Control parameters**

There exist no exposure limits for this material.

**8.2. Exposure controls**
**Personal protection**

- **Respiratory protection** : Suitable respiratory equipment.  
- **Skin protection** : Wear suitable protective clothing.  
- **Eye protection** : Safety glasses.  
- **Hand protection** : Gloves.

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**SECTION 8 Exposure controls/personal protection (continued)**

- Ingestion : When using, do not eat, drink or smoke.  
 Industrial hygiene : Local exhaust is recommended where dust may occur.

Pictograms (Precautionary statements)


**SECTION 9 Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**
**9.1.a. Appearance**

- Physical state at 20 °C : Powder.  
 Colour : Yellow-brown.

**9.1.b. Odour**

No data available.

- Odour : Characteristic.

**9.1.c. Odour threshold**

No data available.

**9.1.d. pH**

No data available.

**9.1.e. Melting point / Freezing point**

No data available.

**9.1.f. Initial boiling point - boiling range**

No data available.

**9.1.g. Flash point**

No data available.

**9.1.h. Evaporation rate**

No data available.

**9.1.i. Flammability**

No data available.

**9.1.j. Explosion limits (lower - upper)**

No data available.

**9.1.k. Vapour pressure**

No data available.

**9.1.l. Vapour density**

No data available.

**9.1.m. Relative density**

No data available.

No data available.

**9.1.n. Solubility**

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**SECTION 9 Physical and chemical properties (continued)****9.1.o. Partition coefficient : n-octanol / water**

No data available.

**9.1.p. Auto-ignition temperature**

No data available.

**9.1.q. Thermal decomposition**

No data available.

**9.1.r. Viscosity**

No data available.

**9.1.s. Explosive Properties**

No data available.

**9.1.t. Oxidising properties**

No data available.

**9.2. Other information**

No data available.

**SECTION 10 Stability and reactivity****10.1. Reactivity**

Stable under normal conditions.

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No data available.

No data available.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

Hazardous decomposition products : No data available.

**SECTION 11 Toxicological information****11.1. Information on toxicological effects**

Rat oral LD50 [mg/kg] : &gt; 5

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**SECTION 12 Ecological information**
**12.1. Toxicity**

**Toxicity information** : No data available.  
No data available.

**12.2. Persistence and degradability**

No data available.  
Biodegradable.

**12.3. Bioaccumulative potential**

None.  
No data available.

**12.4. Mobility in soil**

No data available.  
No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.  
No data available.

**12.6. Other adverse effects**

No data available.  
No data available.

**SECTION 13 Disposal considerations**
**13.1. Waste treatment methods**

**General** : Dispose in a safe manner in accordance with local/national regulations.  
**Industrial waste number** : 18 02 05 - Chemicals consisting of or containing dangerous substances. (Hazardous waste pursuant to Directive 91/689/EEC on hazardous waste)

**SECTION 14 Transport information**
**14.1. UN number**

Not classified.

**14.2. UN proper shipping name**

Not classified.

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

Not classified.

**14.4. Packing group**

Not classified.

**14.5. Environmental hazards**

**In case of spillage and/or leakage** : Clean up even minor leaks or spills if possible without unnecessary risk.

**14.6. Special precautions for user**

**Personal precautions** : The driver shall not attempt to deal with any fire of the load.

**Emergency action in case of accident** : No naked lights. No smoking.  
Keep public away from danger area.  
NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

**Additional information** : None.

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**SECTION 14 Transport information (continued)**
**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.  
Not applicable.

**SECTION 15 Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national/local regulations are observed.

*Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006.*

*Directive 2006/121/EC of the European Parliament and of the Council of 18 December 2006.*

**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**

**S Phrase(s)**

: Xn : Harmful  
: S22 : Do not breathe dust.  
: S35 : This material and its container must be disposed of in a safe way.  
: S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).  
: S51 : Use only in well-ventilated areas.  
: S59 : Refer to manufacturer/supplier for information on recovery/recycling.

**R Phrase(s)**

: R42 : May cause sensitization by inhalation.

**Other**

: None.

**15.2. Chemical safety assessment**
**SECTION 16 Other information**
**Text of R-Phrases in § 3**

: R36/37/38 : Irritating to eyes, respiratory system and skin.  
: R42 : May cause sensitization by inhalation.

**Text of H-Phrases in § 3**

: 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

**Further information**

: None.

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

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