

Porcine Trypsin



Health	0
Fire	0
Reactivity	0
Personal Protection	A

Section 1: Product and Company Identification

<p>Product Name: Trypsin Powder, Porcine 1:250 Recommended Use: In Vitro Methods/ Diagnostic & Tissue Culture Product Origin: USDA Approved Origin Countries</p> <p>Restrictions of Use: Intended for further manufacturing applications or laboratory use only. Not intended for direct parenteral administration or where prohibited by law</p>	<p>Company: Rocky Mountain Biologicals 6015 Greg's Way Missoula, MT 59808</p> <p>Telephone: 406-541-7624 Emergency Telephone: 406-541-7624</p>
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Catalog Numbers: PTR-BBZ, PTR-BDG

Section 2: Hazard Identification


Emergency Overview: All trypsin products should be treated as potentially infectious and handled as if capable of transmitting infectious agents. May cause eye and skin irritation. Handle in accordance with good industrial hygiene and safety practice. Low hazard for usual industrial or commercial handling.

Appearance: Solid
Physical State: Powder
Odor: Characteristic
Target Organs: None known
Potential Health Effects: Acute effects: Principle routes of exposure
 Eyes – may cause irritation
 Skin – may cause irritation
 Inhalation – low hazard for usual industrial or commercial handling
 Ingestion – low hazard for usual industrial or commercial handling
 Chronic effects: None known; see Section 11 for additional toxicological information
 Aggravated medical conditions: No information available

Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
 Skin irritation (Category 2), H315
 Eye irritation (Category 2A), H319
 Respiratory sensitization (Category 1), H334
 Skin sensitization (Category 1), H317
 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label Elements, including precautionary statements:

Pictogram	
Signal word	Danger

Hazard statement(s)

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

Precautionary statement(s)

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/ eye protection/ face protection.
- P285 In case of inadequate ventilation wear respiratory protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P333 + P313 If skin irritation or rash 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 doctor/ physician.
- P362 Take off contaminated clothing and wash before reuse.
- P403 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3: Composition/ Information on Ingredients

Substances

Synonyms Trypsin from porcine pancreas
 CAS-No. 9002-07-7
 EC-No. 232-650-8
 Index-No. 647-010-00-7

Hazardous Components

<u>Component</u>	<u>Classification</u>	<u>Concentration</u>
Trypsin	Skin Irrit. 2; Eye Irrit. 2A; Resp. Sens. 1; Skin Sens. 1; STOT SE 3; H315, H317, H319, H334, H335	60-100%

Section 4: First Aid Measures

General Information: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

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

Inhalation: Move person to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water

When in doubt, or if symptoms are observed, seek medical advice

Section 5: Fire Fighting Measures

Flammability of the Product: No data available

Auto-Ignition Temperature: No data available

Flash Points: No data available

Flammable Limits: No data available

Products of Combustion: No data available

Fire Hazards in Presence of Various Substances: No data available

Explosion Hazards in Presence of Various Substances: No data available

Special Remarks on Fire Hazards: No data available

Special Remarks on Explosion Hazards: No data available

Fire Fighting Media and Instructions: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. May include,CO₂, extinguishing powder or water spray or foam.

Advice for firefighters: Wear self-contained breathing apparatus for firefighting, if necessary

Section 6: Accidental Release Measures

Personal Precautions: Use personal protective equipment; ensure adequate ventilation; avoid contact with skin, eyes, and clothing. Avoid breathing dust, vapors, mist or gas. Avoid dust formation.

Environmental Precautions: Should not be released into the environment. Do not let product enter drains.

Methods for Containment & Clean Up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Small Spill Cleanup: Mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill Cleanup: Absorb with an inert dry material and place the spilled material in an appropriate waste disposal container.

Section 7: Handling and Storage

Handling: Wear personal protective equipment; handle as potentially infectious; avoid contact with skin, eyes, and clothing; handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Product should be handled aseptically and stored in sterile conditions to avoid bacterial contamination.

Storage: Keep containers tightly closed in a dry, cool, and well-ventilated place.
Keep in properly labeled containers.

Section 8: Exposure Controls/ Personal Protection

Exposure Limit Values: Contains no substances with occupational exposure limit values.

Exposure Controls:

Use good laboratory techniques when handling this product. Use appropriate chemical hygiene and universal precautions.

Personal Protective Equipment (PPE): PPE requirements are dependent on the user institutions risk assessment and are specific to the risk assessment for each laboratory where the material may be used.

Eye/Face Protection: Wear appropriate eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin & Body Protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: Follow OSHA respirator regulations found in 29 CFR 1910.34 or European Standard EN149; use an NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Engineering Controls: Prevent product from entering drains. Do not allow material to contaminate ground water system.

Section 9: Physical and Chemical Properties

Physical State and Appearance: Solid powder

Odor: No data available

Odor Threshold: No data available

Taste: No data available

Boiling Point: No data available

Melting Point: No data available

Critical Temperature: No data available

Flash point: No data available

Vapor Pressure: No data available

Vapor Density: No data available

Volatility: No data available

Dispersion Properties: No data available

Solubility: Soluble

Viscosity : No data available

Section 10: Stability and Reactivity

Stability: Stable under normal conditions

Instability Temperature: No data available

Conditions of Instability: No data available

Incompatibility with Various Substances: Strong oxidizing agents

Corrosivity: No data available

Special Remarks on Reactivity: No dangerous reaction known under conditions of normal use.

Special Remarks on Corrosivity: Not available

Polymerization: Hazardous polymerization does not occur

Section 11: Toxicological Information

Acute Toxicity: No data available

Routes of Entry

Eyes – Irritating to eyes

Skin – Irritating to skin

Inhalation – Irritating to respiratory system

Ingestion – May be harmful if swallowed Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Carcinogenic effects – No data available

Mutagenic effects – No data available

Reproductive toxicity – No data available

Sensitization – R42 - May cause sensitization by inhalation

Chronic Effects on Humans: Not available

Section 12: Ecological Information

Ecotoxicity : No data available

Mobility: No data available

Persistence and degradability: No data available

Biodegradation: Inherently biodegradable

Bioaccumulative Potential: No data available

Overall Evaluation: On the basis of existing data about the elimination/ degradation and bioaccumulation, potential longer term damage to the environment is unlikely.

Section 13: Disposal Considerations

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Section 14: Transportation Information

Land Transport (ADR/RID): Not a dangerous good

Inland Water Ways Transport (AND): Not a dangerous good

Sea Transport (IMDG): Not a dangerous good

Air Transport (ICAO-TP/ IATA-DGR): Not a dangerous good

DOT (US) Classification: Not a dangerous good

Section 15: Regulatory Information

TSCA-Trypsin-Listed

US Federal and State Regulations:

SARA 313 – This product is not regulated by SARA

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) – This product does not contain HAPS

California Proposition 65: Does not contain any California Proposition 65 chemicals

State Right-to-Know: Trypsin is subject to the New Jersey State Right to Know Act

Other Classifications:

WHMIS (Canada):

WMIS Hazard Class

D2A-Very Toxic Materials

D2B- Toxic Materials

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

DSCL (EEC): This product is not classified according to the EU regulations. Not applicable.

Section 16: Other Information

The regulations published by OSHA for Hazard Communication, 29 CFR 1910.1200, and 1907/2006/EC and are used as the basis for the development of the MSDS.

For in-vitro diagnostic use. Not for human or animal therapeutic use.

The above information was acquired by careful search and the recommendations are based on application of professional judgment. The information is believed to be correct but may not be all inclusive and is only to be used as a guide. RMBIO shall not be held liable for any damages or losses resulting from the handling or contact with the products described in this document.

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