

Material Safety Data Sheet

Reagent

Product Name	Cat.#
Proteinase K	40109S; 40109L

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Use of The Substance: For R&D/experimental use only

Company Identification: BioDynami

Address: 601 Genome Way, Huntsville, AL 35806, USA

E-mail: support@BioDynami.com

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Repr. 1B H360 May damage fertility or the unborn child.

Pictogram



GHS08

Signal word Danger

Hazard-determining components of labeling:

Proteinase K

Hazard statements

May cause damage to organs.

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF exposed or concerned: Call a poison center/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazard description: Proteinase K

SECTION 4 - FIRST AID MEASURES

Inhalation: Remove to fresh air. Get medical attention immediately.

Skin: Wash off immediately with plenty of soap and water. Get medical attention immediately.

Eye: Flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Ingestion: If swallowed, contact a Poison Control Center or seek medical attention immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media: Water, foam, carbon dioxide or dry chemical as suitable for surrounding materials.

Special Exposure Hazards: Not applicable.

Special Protective Equipment: Wear approved pressure-demand self-contained breathing apparatus and full protective gear.

Hazardous Decomposition: Not applicable.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Prevent skin/eye contact. Use personal protective equipment as needed.

Environmental Methods For Cleaning Up: Cover with absorbent material and sweep up being careful not to create dust. Place into suitable waste container for later disposal.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes.

Storage: Keep container tightly closed.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: Not applicable.

Hand protection: Protective gloves.

Eye protection: Protective goggles.

Skin and body protection: Appropriate protective clothing.

Hygiene measures: Do not eat, drink or smoke when handling this product. Wash thoroughly after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: aqueous solution

Odor: None

Flash point: Not available

Solubility: Aqueous solution

Density (water = 1): Not available.

Boiling point: Approximately 100°C

Melting point: Not applicable

pH: 7.5

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable.

Hazardous Decomposition Products: No dangerous decomposition products known.

SECTION 11 - TOXICOLOGICAL INFORMATION

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

Product Toxicity Data:

The following are calculated estimates for the product:

Proteinase K:

Acute Toxicity Estimate (Oral) > 2000 mg/kg

Acute Toxicity Estimate (Dermal) > 2000 mg/kg

Acute Toxicity Estimate (Inhalation) > 10 mg/L

Degree of Irritation: The product is not reported to cause skin or eye irritation.

Sensitization: This product contains a reported respiratory sensitizer.

Review of Acute Symptoms: See Section 2 (Hazards Information) and Section 4 (First-Aid Measures) for additional details.

Carcinogenicity Status: No component of this product is listed as a carcinogen according to the NTP (National Toxicology Program), IARC (International Agency for Research on Cancer), or OSHA (US Occupational Safety and Health Administration).

Reproductive Toxicity Information: The components of this product are not reported to cause reproductive effects under typical circumstances of exposure.

Mutagenic Effects: The components of this product are not reported to cause mutagenic effects under typical circumstances of exposure.

Specific Target Organ Toxicity - Single Exposure: Not applicable.

Specific Target Organ Toxicity – Repeated Exposure: Not applicable.

Aspiration Hazard: Not applicable.

Toxicologically Synergistic Products: None known.

Additional Toxicology Information: Not applicable.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No Data Available

Mobility: This product is anticipated to be mobile in soil.

Persistence and Degradability: When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

Bioaccumulative Potential: The components of this product are not anticipated to bioaccumulate in any significant quantities.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

SECTION 14 - TRANSPORT INFORMATION

Not regulated as hazardous for transportation.

SECTION 15 - REGULATORY INFORMATION

US Regulations: Components of this product are listed on the TSCA inventory. No components are listed on U.S. SARA Title III. This product does not contain any chemicals currently on the California list of known carcinogens and reproductive toxins.

EU Regulations: This preparation does not meet the dangerous preparations classification criteria under 1999/45/EC. Not all components of this product are listed on EINECS.

Canadian Regulations: This product is not considered hazardous based on WHMIS criteria.

SECTION 16 - OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. BioDynami is not held liable for any damage resulting from handling or from contact with the above-mentioned products.