

| Section | 1. Identification | | | | | |
|--------------------------|---|--|--|--|--|--|
| Product Name | BP Protease | | | | | |
| Product Code | 003-1000, 003-2000, 003-3000 Purified poutral protesse from <i>Ragnibacillus polymyza</i> | | | | | |
| Chemical Name | Purified neutral protease from <i>Paenibacillus polymyxa</i> | | | | | |
| Synonyms | Neutral Protease, Proteinase | | | | | |
| Intended Application | Purified enzyme for the release of cells from a tissue matrix | | | | | |
| Manufacturer | VitaCyte, LLC | | | | | |
| | 1341 Sadlier Circle West Drive Indianapolis, IN 46239 | | | | | |
| | Indianapolis, IN 46239 | | | | | |
| Technical Phone # | 317-917-3457 | | | | | |
| Section | 2. Hazard(s) Identification | | | | | |
| Hazard Classification | GHS Classification in accordance with 2012 OSHA Hazard Communication Standard (29 CFR | | | | | |
| | 1910.1200) | | | | | |
| | Skin Irritation (Category 2), H315 | | | | | |
| | Eye Irritation (Category 2A), H319 | | | | | |
| | Respiratory Sensitization (Category 1), H334 | | | | | |
| | Specific Target Organ Toxicity – Single Exposure (Category 3), Respiratory System , H335 | | | | | |
| Pictograms | | | | | | |
| Signal Word | Danger | | | | | |
| Hazard Statements | | | | | | |
| 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. | | | | | |
| Precautionary Statements | | | | | | |
| P261 | Avoid breathing dust/fume/gas/mist/spray. | | | | | |
| P264 | Wash skin thoroughly after handling. | | | | | |
| P271 | Use only outdoors or in a well-ventilated area. | | | | | |
| P280 | Wear eye protection/face protection. | | | | | |
| P280 | Wear protective gloves. | | | | | |
| P285 | In case of inadequate ventilation wear respiratory protection. | | | | | |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. | | | | | |
| P304 + P340 + P312 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. | | | | | |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | | | | | |

SAFETY DATA SHEET

BP Protease

| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
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| P337 + P313 | If eye irritation occurs: 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 + P233 | 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. |

| Section | 3. Composition/Information on Ingredients | | | | |
|-----------------------------------|---|---------------------------------------|--|--|--|
| Component | CAS-No | Weight % | | | |
| Purified BP Prote | ase 42613-33-2 | 100 % | | | |
| Section | 4. First-Aid Measures | | | | |
| Eyes | In case of contact, immediately wash eyes with copious amounts of water for at least 15 minutes. | | | | |
| Skin | In case of contact, wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. | | | | |
| Inhalation | If swallowed, wash out mouth with water provided person is con | nscious. Call a physician. | | | |
| Ingestion | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call Poison Control Center or seek medical attention. | | | | |
| Section | 5. Fire-Fighting Measures | | | | |
| Suitable Extinguishing Media | Water spray, carbon dioxide, dry chemical powder, or appropria | te foam | | | |
| Unsuitable Extinguishing Media | No information available | | | | |
| Autoignition Temperature | Not applicable | | | | |
| Explosion Hazard | No information available | | | | |
| Hazardous Combustion Products | Carbon monoxide, carbon dioxide | | | | |
| Firefighting Precautions | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. | | | | |
| NFPA Rating | Health 2 / Flammability 0 / Instability 0 / Physical Hazards N/A | | | | |
| Section | 6. Accidental Release Measures | | | | |
| Personal Precaution | Keep bottle tightly closed and avoid forming dust. | | | | |
| Emergency Procedures | Ventilate area and evacuate personnel to safe area. | | | | |
| Containment | Soak up liquid with absorbent material and place contaminated container for waste disposal. | material in appropriate sealed | | | |
| Clean-Up | Wash spill site after containment is complete. | | | | |
| Section | 7. Handling and Storage | | | | |
| Handling | Avoid dust formation. Do not get in eyes, on skin, on clothing, or | r breathe dust. | | | |
| Storage | Keep in a tightly closed container at -20 \pm 5°C. | | | | |
| Section | 8. Exposure Controls/Personal Protection | | | | |
| Permissible Exposure Limits | This product does not have occupational exposure limits. | | | | |
| Engineering Controls | Safety shower, eye wash station and mechanical exhaust system | I | | | |
| Eye Protection | Chemical safety goggles or appropriate eye protection | | | | |
| Skin Protection | Compatible chemical-resistant gloves | | | | |
| Respiratory Protection | Respiratory protection is not required under normal use of this p | product. If respiratory protection is | | | |

SAFETY DATA SHEET

BP Protease

Hygiene

Revision 21 July 2021

| needed use a government approved respirator. |
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| Wash thoroughly after handling. |

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| Section | 9. Physical and Chemi | cal Properties | | | |
| Appearance | White to off-white lyoph | ilized cake | | | |
| Physical State | Solid | | | | |
| рН | 6 – 8 | | | | |
| Molecular Weight | ~37 kDa | ~37 kDa | | | |
| Boiling Point/Range | Not determined | | | | |
| Melting Point/Range | Not determined | | | | |
| Freezing Point | Not determined | | | | |
| Vapor Pressure | Not determined | | | | |
| Vapor Density | Not determined | | | | |
| Evaporation Rate | Not determined | | | | |
| Specific Gravity | Not determined | | | | |
| Solubility | Soluble in water, limit no | t determined | | | |
| Section | 10. Stability and React | ivity | | | |
| Reactive Hazard | None known, based on ir | - | | | |
| Stability | Stable under ordinary conditions of storage and use | | | | |
| Conditions to Avoid | Heat and extreme pH | | | | |
| Incompatible Materials | Strong oxidizing agents, strong acids and bases | | | | |
| Hazardous Decomposition | Nature of decomposition products not known | | | | |
| Hazardous Polymerization | None under normal processing | | | | |
| Hazardous Reactions | None under normal processing | | | | |
| Section | 11. Toxicological Information | | | | |
| Routes of Exposure | | | | | |
| Acute Toxicity | Ingestion, inhalation, skin and/or eye contact No information available | | | | |
| Chronic Toxicity | No information available | | | | |
| Carcinogenicity | IARC NTP OSHA ACGIH | | | | |
| Collagenase | Not listed | Not listed | Not listed | Not listed | |
| Glycylglycine | Not listed | Not listed | Not listed | Not listed | |
| Calcium Chloride | Not listed | Not listed | Not listed | Not listed | |
| Symptoms both acute and | May cause skin, lung and eye irritation. May be harmful if absorbed through the skin, ingested or | | | | |
| delayed | inhaled. | | | | |
| Section | 12. ECOLOGICAL INFORMATION | | | | |
| Ecotoxicity | No information available | | | | |
| Persistence | Unlikely based on inform | ation available | | | |
| Bioaccumulation | No information available | | | | |
| Mobility | Likely to be mobile in the environment due to solubility in water | | | | |
| Section | 13. DISPOSAL CONSID | ERATIONS | | | |
| | | | | | |

 Waste Disposal
 Recovery or recycling should be managed in an appropriate and approved waste disposal facility.

 Processing, use or contamination of this product may change the waste management options.

 State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SAFETY DATA SHEET

Revision 21 July 2021

BP Protease

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| Section | 14. TRANSPORT INFORMATION |
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| DOT | US, Not regulated |
| TDG | Canada, Not regulated |
| ΙΑΤΑ | International Air Transport Association, Not regulated |
| IMDG/IMO | International Maritime Dangerous Goods, Not regulated |

| Section | 15. REGULATORY INFORMATION | | | | | | |
|-------------------------|----------------------------|----------------|------------|------------|------------|--------|------------|
| US Federal TSCA 12(b) | Not applicabl | e | | | | | |
| US Federal CERCLA | Not applicabl | Not applicable | | | | | |
| US Federal SARA 313 | Not applicabl | Not applicable | | | | | |
| US Federal 311/312 (US) | Acute health hazard | | | | | | |
| California Prop 65 | Not listed | | | | | | |
| Canada DSL/NDSL | Not listed | | | | | | |
| European Union EINECS | 233-966-6 | | | | | | |
| International | NLP | ELINCS | ENCS | AICS | PICCS | IECSC | KECL |
| | Not listed | Not listed | Not listed | Not listed | Not listed | Listed | Not listed |

| Section | 16. OTHER |
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| Prepared By | VitaCyte Regulatory Affairs (feedback@vitacyte.com) |
| Creation Date | 30 Mar 2009 |
| Revision Date | 13 July 2021 |
| Summary | This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). |
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