**Version Mar 2024** 



Section	1. Identification					
Product Name	PD Collagenase 100, PD Collagenase 800					
<b>Product Code</b>	011-3010, 011-3020					
Chemical Name	Purified Collagenase from <i>Clostridium histolyticum</i> blended with purified neutral protease from Paenibacillus polymyxa					
Synonyms	Collagenase Blend and Neutral Protease					
Intended Application	Purified enzyme for the release of cells from a tissue matrix					
Manufacturer	VitaCyte, LLC					
	1341 Sadlier Circle West Drive					
	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**

PD Collagellase 100, 600 version ivial 2024	PD Collagenase 100, 800	Version Mar 2024
---	-------------------------	------------------

P332 + P313	If skin irritation occurs: Get medical advice/attention.
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	3. Composition/Information on Ingredients		
Component		CAS-No	Weight %
Purified Collagenase		9001-12-1	10-50 %
Purified B. polymyxa Neutral Protease		42613-33-2	2-4 %
Non-reactive stabilizing agent		Trade Secret	46-88 %

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 conscious. 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 appropriate foam
Unsuitable Extinguishing Media	No information available
<b>Autoignition Temperature</b>	Not applicable
<b>Explosion Hazard</b>	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.				
<b>Emergency Procedures</b>	Ventilate area and evacuate personnel to safe area.				
Containment	Soak up liquid with absorbent material and place contaminated material in appropriate sealed container for waste disposal.				
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 breathe dust.
Storage	Keep in a tightly closed container at +2-8°C or colder.

Section	8. Exposure Controls/Personal Protection					
Permissible Exposure Limits	This product does not have occupational exposure limits.					
<b>Engineering Controls</b>	Safety shower, eye wash station and mechanical exhaust system					
Eve Protection	Chemical safety goggles or appropriate eye protection					

## **SAFETY DATA SHEET**

PD Collagenase 100, 800 Version Mar 2024

**Skin Protection** Compatible chemical-resistant gloves

**Respiratory Protection** Respiratory protection is not required under normal use of this product. If respiratory protection is

needed use a government approved respirator.

**Hygiene** Wash thoroughly after handling.

Section 9. Physical and Chemical Properties

**Appearance** White to off-white lyophilized cake

Physical State Solid pH 6 – 7

Molecular Weight ~115 kDa and ~35 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 not determined

Section 10. Stability and Reactivity

**Reactive Hazard** None known, based on information available

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** Ingestion, inhalation, skin and/or eye contact

Acute Toxicity No information available
Chronic Toxicity No information available

IARC Carcinogenicity NTP **OSHA ACGIH** Collagenase Not listed Glycylglycine Not listed Not listed Not listed **Calcium Chloride** Not listed

Symptoms both acute and delayed

May cause skin, lung, and eye irritation. May be harmful if absorbed through the skin, ingested, or inhaled.

Section 12. ECOLOGICAL INFORMATION

**Ecotoxicity** No information available

Persistence Unlikely based on information available

**Bioaccumulation** No information available

**Mobility** Likely to be mobile in the environment due to solubility in water

## **SAFETY DATA SHEET**

PD Collagenase 100, 800 Version Mar 2024

Section	13. DISPOSA	AL CONSIDER	ATIONS					
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.							
Section	14. TRANSP	14. TRANSPORT INFORMATION						
DOT	US, Not regu	ated						
TDG	Canada, Not	regulated						
IATA	International	Air Transport	Association, No	t regulated				
IMDG/IMO	International	Maritime Dan	gerous Goods,	Not regulated				
Section	15. REGULATORY INFORMATION							
US Federal TSCA 12(b)	Not applicabl	е						
US Federal CERCLA	Not applicabl	e						
US Federal SARA 313	Not applicabl	e						
US Federal 311/312 (US)	Acute health	hazard						
California Prop 65	Not listed							
Canada DSL/NDSL	Not listed							
<b>European Union EINECS</b>	232-582-9/23	33-966-6						
International	NLP	ELINCS	ENCS	AICS	PICCS	IECSC	KECL	
	Not listed	Not listed	Not listed	Not listed	Not listed	Listed	Not listed	
Section	16. OTHER							
Prepared By	VitaCyte Reg	ulatory Affairs	(feedback@vita	icyte.com)				
<b>Creation Date</b>	11 Mar 2024							
<b>Revision Date</b>	n/a							
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).							
Disclaimer	The information provided on this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.							