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Section	1. Identification					
Product Name	Recombinant Collagenase rHI					
Product Code	001-4010					
Chemical Name	Purified recombinant Collagenases C1 and C2 expressed in Escherichia coli					
Synonyms	Recombinant ColG, Recombinant ColH, Collagenase Blend					
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					
Pictograms	Specific Target Organ Toxicity – Single Exposure (Category 3), Respiratory System, H335					
Signal Word	Danger					
Hazard Statements						
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 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.					
P272	Contaminated work clothing should not be allowed out of the workplace.					
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					

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	easy to do. Continue rinsing.
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. Composition/In	formation on Ingredients			
Component		CAS-No	Weight %		
Purified Recombinant Collagenase		9001-12-1	100 %		
Section	4. First-Aid Measu	res			
Eyes	In case of contact, in	In case of contact, immediately wash eyes with copious amounts of water for at least 15 minutes.			
Skin	In case of contact, w clothing and shoes.	In case of contact, wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes.			
Inhalation	If swallowed, wash c	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 Eiro-Eighting M				

Section	5. Fire-Fighting Measures
Suitable Extinguishing Media	Water spray, carbon dioxide, dry chemical powder, or appropriate 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 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 -20±5°C or colder.			

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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
Eye Protection	Chemical safety goggles or appropriate eye protection
Skin Protection	Compatible chemical-resistant gloves
<b>Respiratory Protection</b>	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
рН	6 – 8
Molecular Weight	~115 kDa
Boiling Point/Range	Not determined
Melting Point/Range	Not determined
Freezing Point	Not determined
Vapor Pressure	Not determined
Vapor Density	Not determined
<b>Evaporation Rate</b>	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
<b>Conditions to Avoid</b>	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, ski	Ingestion, inhalation, skin and/or eye contact						
Acute Toxicity	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 delayed	May cause skin, lung, and eye irritation. May be harmful if absorbed through the skin, ingested, or inhaled.							

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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			
Section	13. DISPOSAL CONSIDERATIONS			
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. TRANSPORT INFORMATION
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	Acute health hazard						
California Prop 65	Not listed	Not listed						
Canada DSL/NDSL	Not listed	Not listed						
European Union EINECS	232-582-9							
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 Regulatory Affairs (feedback@vitacyte.com)
<b>Creation Date</b>	14 Aug 2018
<b>Revision Date</b>	1 May 2025
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.