

Section	1. Identification					
Product Name	Collagenase MA					
Product Code	001-2020, 001-2030					
Chemical Name	Purified Collagenase from Clostridium hystolyticum					
Synonyms	Collagenase, ColG, ColH, Collagenase 60:40, 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

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.

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 Collagena	ase 9001-12-1	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 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

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	Keen in a tightly closed container at -20°C or colder

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
Respiratory Protection	Respiratory protection is not required under normal use of this product. If respiratory protection is needed use a government approved respirator.

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Hygiene Wash thoroughly after handling

Section	9. Physical and Chemical Propertie	S

Appearance White to off-white lyophilized cake

Physical State Solid
pH 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 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

Carcinogenicity
Collagenase
Glycylglycine
Calcium Chloride

IARC	NTP OSHA		ACGIH
Not listed	Not listed	Not listed	Not listed
Not listed	Not listed	Not listed	Not listed
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.

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.

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Section	14. TRANSP	ORT INFORM	TATION				
DOT	US, Not regulated						
TDG	Canada, Not	Canada, Not regulated					
IATA	International	Air Transport	Association, No	t regulated			
IMDG/IMO	International	Maritime Dan	gerous Goods, I	Not regulated			
Section	15. REGULA	TORY INFOR	MATION				
US Federal TSCA 12(b)	Not applicabl	е					
US Federal CERCLA	Not applicabl	е					
US Federal SARA 313	Not applicabl	Not applicable					
US Federal 311/312 (US)	Acute health	Acute health hazard					
California Prop 65	Not listed						
Canada DSL/NDSL	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
0 11	46 071150						
Section	16. OTHER						
Prepared By	, .	ılatory Affairs	(info@vitacyte.	com)			
Creation Date	25 July 2008						
Revision Date		3 Mar 2016					
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.						