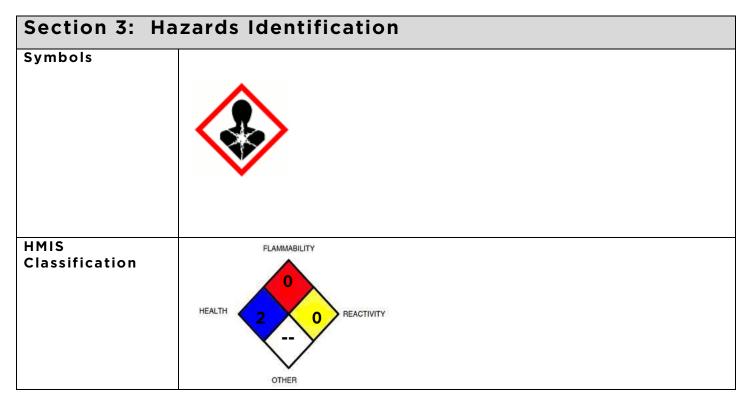


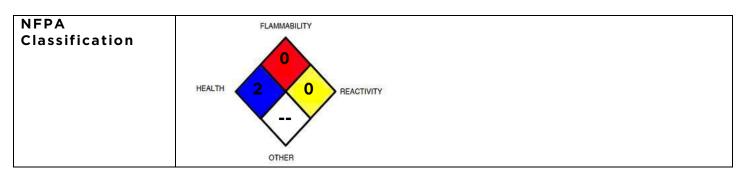
Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Collagenase, Type 1	
Product #:	C-2823	
Synonyms:	Clostridiopeptidase A; Collagenase from Clostridium histolyticum	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC#	% Composition
Collagenase	9001-12-1	232-582-9	100







Section 4: First Aid Measures		
General	Consult a physician. Show this safety data sheet to the doctor in attendance.	
Overview:	Move out of dangerous area.	
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.	
Skin:	Wash off with soap and plenty of water. Consult a physician.	
Eyes:	Flush eyes with water as a precaution.	
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.	
	See section 11 for more detailed information on health effects & symptoms.	

SECTION 5:	Fire Fighting Measures
Flammability of	No data available
the product:	
Extinguishing	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Media:	
Hazardous	No data available
thermal	
(de)composition	
products:	
Special Fire	Wear self-contained breathing apparatus for firefighting if necessary.
Fighting	
Procedures:	
Flash Point:	No data available

Section 6: A	ccidental Release Measures
Personal	Use personal protective equipment. Avoid dust formation. Avoid breathing
Precautions:	vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental	Do not let product enter drains.
Precautions:	
Methods for	Pick up and arrange disposal without creating dust. Sweep up and shovel.
Clean-up:	Keep in suitable, closed containers for disposal.



SECTION 7:	Handling & Storage
Storage:	Keep container tightly closed in a dry and well-ventilated place. Recommended to store desiccated at 2-8°C. Keep in a dry place.
Handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:



For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin and Body:





Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Eyes:



	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Ventilation/Engineering Measures:	Do not let product enter drains.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	N/A

SECTION 9: Physical and Chemical Properties		
Appearance &	White to dark-brown powder	
Odor:		
Formula	C ₆₀ H ₁₀₀ N ₂	
Molecular Wt.	No data available	
Melting Pt.	No data available	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
Evaporation Rate:	No data available	
Vapor Density:	No data available	
Solubility:	Water	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity	
Stability:	Stable under recommended storage conditions.
Hazardous	No data available
decomposition	
products:	
Materials to Avoid:	Strong oxidizing agents
Conditions to avoid:	No data available



SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:	N/A	
CHRONIC Toxicity:	N/A	
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA	

SECTION 12: Ecological Information		
Ecotoxicity:	No data available	
Mobility:	No data available	
Persistence and	No data available	
degradability:		
Bioaccumulative	No data available	
potential:		
Other adverse	No data available	
effects:		
Corrosivity	No data available	
Characteristic:		
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.	

SECTION 13:	Disposal Considerations
Residue Waste or Unused product:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated Packaging:	Dispose of as unused product.



SECTION 14: Transportation Information	
UN ID#:	N/A
ADR / RID (LAND):	Not regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	N/A

SECTION 15: Regulatory Information	
Health Phrases:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Risk Phrases:	P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P284 Wear respiratory protection.
Safety Phrases:	P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P501 Dispose of contents/ container to an approved waste disposal plant.
EU Regulations:	N/A
US Regulations:	TSCA: No products listed California Proposition 65: No products listed
U.S. Federal Regulations:	SARA 302/304/311/312 extremely hazardous substances: No products were found SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: No products were found
WHMIS (Canada):	N/A



SECTION 16: Other Information

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