

## Safety Data Sheet


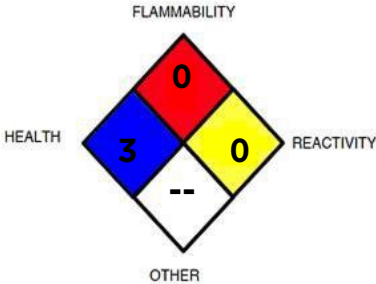
### Section 1: Product & Company Identification

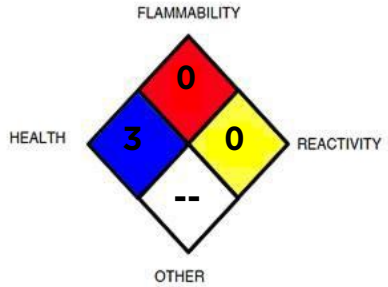
<b>Product Name:</b>	Collagenase, Type A (Animal-Origin Free)
<b>Product #:</b>	C-2845
<b>Synonyms:</b>	-
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

### Section 2: Composition / Information on Ingredients

Component	CAS#	EC #	% Composition
Collagenase ( <i>Cl. histolyticum</i> )	9001-12-1	3.4.24.3	

### Section 3: Hazards Identification

<b>Symbols</b>	
<b>HMIS Classification</b>	<p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">HEALTH      REACTIVITY</p> <p style="text-align: center;">OTHER</p>

<b>NFPA Classification</b>	
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## Section 4: First Aid Measures

<b>General Overview:</b>	Allergy-prone and asthmatic individuals should be particularly cautious with enzymes and other materials of biologic origin. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of contact area.
<b>Inhalation:</b>	May be harmful if inhaled. Causes respiratory tract irritation. Remove person from source then obtain necessary medical attention.
<b>Skin:</b>	May be harmful if absorbed through skin. May cause eye or respiratory irritation upon contact. Remove contaminated clothing. Wash material from skin with soap and water and rinse thoroughly with clean water. Obtain medical attention as needed or if irritation develops. Clean contaminated clothing before reuse.
<b>Eyes:</b>	May cause eye irritation. Check for contact lenses and remove if present. Flush thoroughly with water while opening eyelids. If symptoms such as redness and irritation persist, obtain medical attention.
<b>Ingestion:</b>	May be harmful if swallowed. Obtain medical attention as needed
	See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	Not flammable or combustible.
<b>Extinguishing Media:</b>	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
<b>Hazardous thermal (de)composition products:</b>	Nature of decomposition products not known.
<b>Special Fire Fighting Procedures:</b>	Wear self-contained breathing apparatus for fire fighting if necessary.
<b>Flash Point:</b>	No data available




## Section 6: Accidental Release Measures


<b>Personal Precautions:</b>	Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid breathing dust, vapors, mist, or gas. Evacuate personnel to safe areas.
<b>Environmental Precautions:</b>	Dispose of waste in accordance with all applicable Federal, State, and local regulations.
<b>Methods for Clean-up:</b>	Wear approved respirator and protective gloves. Vacuum or collect powdered spill into appropriate waste container for disposal. Avoid physical contact and dust during removal. Use normal clean-up procedures for liquid spillage and wash thoroughly with water. Wash contaminated clothing before reuse.

## SECTION 7: Handling & Storage

<b>Storage:</b>	Refer to specific product label for storage conditions. Lyophilized proteins will absorb moisture under high humidity and/or moisture conditions. Keep containers tightly closed when not in use and store in a cool, dry area according to label conditions. Recommended storage temperature: 2 - 8°C.
<b>Handling:</b>	Provide appropriate exhaust ventilation. Minimize dust and/or aerosol generation during use. Dry powders can build static electricity caused by excessive handling.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	 <p>A protective dust mask or approved respirator is advisable to avoid breathing particulates when a powdered form of the product is being handled.</p>
<b>Skin and Body:</b>	  <p>Wear gloves and labcoat to prevent skin contact. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory procedures. Wash and dry hands.</p>
<b>Eyes:</b>	

	 <p>Safety glasses or laboratory goggles should be worn.</p>
<b>Ventilation/Engineering Measures:</b>	Ensure adequate ventilation.
<b>Hygiene:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Other:</b>	N/A

## SECTION 9: Physical and Chemical Properties

<b>Appearance &amp; Odor:</b>	White to tan lyophilized powder.
<b>Formula</b>	N/A
<b>Molecular Wt.</b>	N/A
<b>Melting Pt.</b>	N/A
<b>Boiling Pt.</b>	N/A
<b>Density:</b>	N/A
<b>Vapor Pressure:</b>	N/A
<b>Evaporation Rate:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>Solubility:</b>	Water
<b>Flash Point:</b>	N/A
<b>Autoignition Temp:</b>	N/A

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous decomposition products:</b>	None known
<b>Materials to Avoid:</b>	None known
<b>Conditions to avoid:</b>	N/A

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	N/A
<b>ACUTE Toxicity:</b>	N/A

<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	No environmental hazard is known.
<b>Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Dispose of waste in accordance with all applicable Federal, State and local regulations. Chemical residues are generally classified as special waste and, as such, the transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, State and local regulations.
<b>Contaminated Packaging:</b>	Rinse empty containers thoroughly before disposal and/or recycling.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	N/A
<b>ADR / RID (LAND):</b>	Not regulated
<b>DOT regulations:</b>	Not regulated
<b>IMDG/IMO (SEA):</b>	Not regulated

<b>IATA/DGR (AIR):</b>	Not regulated
<b>Special Provisions:</b>	N/A

## SECTION 15: Regulatory Information

<b>Health Phrases:</b>	<p>H315: Causes skin irritation.  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.</p>
<b>Risk Phrases:</b>	<p>P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  P280: Wear protective gloves.  P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.</p>
<b>Safety Phrases:</b>	N/A
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	<p>TSCA: Not listed  California Proposition 65: No products found</p>
<b>U.S. Federal Regulations:</b>	<p>SARA 302/304 emergency planning and notification: No products were found.  SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute Health Hazard  SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>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.</p> <p>OSHA: Skin and respiratory sensitizer. Irritant. Skin irritation (Category 2), Eye irritation (Category 2A), Respiratory sensitization (Category 1), Skin sensitization (Category 1), Specific target organ toxicity - single exposure (Category 3)</p>
<b>WHMIS (Canada):</b>	N/A

## SECTION 16: Other Information



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