

Safety Data Sheet

Revision: 02 Date: April 9, 2023

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1. Product Identifiers **Product Name** Collagenase, Lyophilized Catalog No 5030 **Brand Name** Collagenase CAS No. 9001-12-1 2. Relevant identified uses of the substance or mixture and uses advised against **Identified Uses** Laboratory chemicals, Manufacturer of substances 3. Details of the supplier of the safety data sheet Company Advanced BioMatrix, Inc. 5930 Sea Lion Place Carlsbad, CA 92010 USA Phone: 1-800-883-8220 1-760-929-0755 outside USA Fax 1-510-217-3452 4. Emergency telephone number

SECTION 2 – HAZARDS IDENTIFICATION

1-800-883-8220

- Classification of the substance or mixture Skin irritation (Category 2) Eye irritation (Category 2A) Respiratory sensitization (Category 1) Skin sensitization (Category 1) Specific target organ toxicity - single exposure (Category 3) Classification according to Regulation (EC) No. 1272/2008
- 2. GHS Label elements, including precautionary statements

Pictogram

\$()

Warning

Signal word Hazard statement(s) H315

Emergency Phone No.

Causes skin irritation.

Α	DVANCED	
F		
	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 statement(s)	
	P261	Avoid breathing
		dust/fume/gas/mist/vapors/spray.
	P280	Wear protective gloves/eye
		protection/face protection.
	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 + P331	If experiencing respiratory
		symptoms: Call a POISON CENTER or
		doctor/physician.
3.	Hazards not otherwise classified (HNOC) or n	ot covered by GHS – None.
	Potential Health Effects	-
	Inhalation	May be harmful if inhaled. Causes
		respiratory tract irritation.
	Skin	May be harmful if absorbed through
		skin. May cause skin, eye, or

Eyes Ingestion

5. Medical conditions Generally Aggravated by Exposure: Allergy-prone and asthmatic individuals should be particularly cautious with enzymes and other materials of biologic origin.

respiratory irritation upon contact.

May cause eye irritation.

May be harmful if swallowed.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

1. Substances

CAS No.	9001-12-1
EC No.	3.4.24.3

Classification according to Regulation (EC) No. 1272/2008

ADVANCED BIOMATRIX >>

A BICO COMPANY

SECTION 4 – FIRST AID MEASURES

1. General advice: Enzymes/Proteins may cause allergic reactions in certain sensitive individuals.

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of contact area.

2. Eye Contact

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.

3. Skin 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.

4. Inhalation

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration.

5. Ingestion

May be harmful if swallowed. Obtain medical attention as needed.

- 6. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.
- **7. Indication of any immediate medical attention and special treatment needed** No data available

SECTION 5 – FIREFIGHTING MEASURES

1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- **2.** Special hazards arising from the substance or mixture No data availale
- **3.** Advice for firefighters Wear self-contained breathing apparatus for firefight if necessary.
- **4. Further Information** No data available

SECTION 6 – ACCIDENTAL RELEASE MEASURES

1. Personal precautions, protective equipment and emergency procedures Avoid breath vapors, mist or gas.

ADVANCED BIOMATRIX >>

A BICO COMPANY For personal protection see section 8.

2. Environmental precautions Do not let product enter drains.

3. Methods and materials for containment and cleaning up

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.

4. Reference to other sections

For disposal see section 13.

SECTION 7 – HANDLING AND STORAGE

1. Precautions for safe handling

Provide appropriate exhaust ventilation. Minimize dust and/or aerosol generation during use. Dry powders can build static electricity caused by excessive handling. Wear appropriate protective equipment as per Section 8. For precaution see section 2.2

2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. 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. Longterm storage temperatures should not exceed 25°C for maximum stability.

3. Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

- Workplace control parameters Contains no substances with occupational exposure limit values.
 Exposure controls
 - Appropriate engineering controls
 - Exhaust Vent Fan.

Personal protective equipment

Eye/Face protection

Either safety glasses or goggles should be worn.

Skin and body protection

Wear gloves and labcoat to prevent skin contact. Use proper glove removal technique (without touching

ADVANCED

A BICO COMPANY

their outer surface) to avoid skin contact with these products. Dispose of contaminated gloves after use in accordance with applicable

laws and good laboratory practices. Wash and dry hands.

Respiratory protection

A protective dust mask or approved respirator is advisable to avoid breathing particulates when a powdered form of the product is being handled.

Other Protective Clothing or Equipment

Sensitive individuals should wear dust masks/respirators, protective gloves, eye protection, lab coat, apron or other protective clothing to minimize contact.

Control of environmental exposure

Do not let product enter drains.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form Color Odor Odor threshold pН Melting point/freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability Upper/lower flammability Vapor pressure Vapor density **Relative density** Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity **Explosive properties** Oxidizing properties

Powder White to tan No data available No data available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Possibility of hazardous reactions Conditions to avoid Incompatible material Hazardous decomposition products Stable under recommend storage conditions No data available No data available No data available Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

In the event of fire: see section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity Inhalation Dermal Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization	No data available No data available No data available No data available No data available May cause allergic respiratory and skin reactions.
Germ cell mutagenicity Carcinogenicity	No data available
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.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity Single exposure Repeated exposure	May cause respiratory irritation. May cause allergic reactions.



Aspiration hazard Additional information RTECS

No data available

No data available

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil Results of PBT and vPvB assessment No data available No data available No data available No data available PBT/vPvB assessment not available as chemical safety assessment not required/not conducted. No data available

Other adverse effect

SECTION13 – DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

ADR IMDG IATA Not dangerous goods Not dangerous goods Not dangerous goods

SECTION 15 – REGULATORY INFORMATION

SARA 302 Components

SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting



SARA 311/312 Hazards Massachusetts Right To Know Components

Pennsylvania Right To Know Components

New Jersey Right To Know Components

California Prop. 65 Components

levels established by SARA Title III, Section 313. Acute Health Hazard No components are subject to Massachusetts Right To Know Act. No components are subject to Pennsylvania Right To Know Act.

No components are subject to Pennsylvania Right To Know Act. This product does not contain any chemicals known to State of California to cause cancer birth defects, or any other reproductive harm.

SECTION 16 – OTHER INFORMATION

HMIS Rating	
Health hazard	3
Chronic Health Hazard	Unknown, allergic reactions may develop in certain sensitive individuals.
Flammability	0
Physical Hazard	0
NFPA Rating	
Health hazard	3
Fire Hazard	0
Reactivity Hazard	0

Further information:

This information has been prepared by Advanced BioMatrix, Inc. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Advanced BioMatrix, Inc. and its Affiliates shall not be held liable for any damages resulting from handling or from contact with the above product. See <u>www.advancedbiomatrix.com</u> for additional terms and conditions of sale.

Preparation Information:

Advanced BioMatrix, Inc. 1-800-883-8220