

# **Safety Data Sheet**

Revision: 01 Date: March 20, 2017

# 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

Emergency Phone No. 1-800-883-8220

# **SECTION 2 - HAZARDS IDENTIFICATION**

#### 1. 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)

# 2. GHS Label elements, including precautionary statements

**Pictogram** 

Warning

Signal word

Hazard statement(s)

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.

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 not covered by GHS - None.

4. 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

respiratory irritation upon contact.

Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

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

# **SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

# 1. Substances

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

# **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.

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**

#### 1. Workplace control parameters

Contains no substances with occupational exposure limit values.

# 2. 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

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 Powder Color White to tan Odor No data available Odor threshold No data available рΗ No data available Melting point/freezing point No data available Initial boiling point and boiling range No data available Flash point No data available Evaporation rate No data available **Flammability** No data available Upper/lower flammability No data available Vapor pressure No data available Vapor density No data available Relative density No data available Water solubility No data available Partition coefficient: n- octanol/water No data available Auto-ignition temperature No data available No data available Decomposition temperature Viscosity No data available Explosive properties No data available Oxidizing properties No data available

# **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity No data available

Chemical stability Stable under recommend storage

conditions

Possibility of hazardous reactions No data available Conditions to avoid No data available

Incompatible material Hazardous decomposition products

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

No data available
No data available
No data available
No data available

Respiratory or skin sensitization May cause allergic respiratory and

skin reactions. No data available

Germ cell mutagenicity

**ACGIH** 

Carcinogenicity

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. 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 May cause respiratory irritation.
Repeated exposure May cause allergic reactions.

Aspiration hazard No data available

Additional information

RTECS No data available

<sup>\*\*</sup>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

No data available

No data available

No data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available

as chemical safety assessment not required/not conducted.

Other adverse effect No data available

# **SECTION 13 - 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**

DOT (US)

IMDG

IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

# **SECTION 15 - REGULATORY INFORMATION**

SARA 302 Components

No chemicals in this material are

subject to the reporting requirements

of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any

chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III.

Section 313.

SARA 311/312 Hazards Acute Health Hazard

Massachusetts Right To Know Components No components are subject to

Massachusetts Right To Know Act.

Pennsylvania Right To Know Components No components are subject to

Pennsylvania Right To Know Act.

New Jersey Right To Know Components

California Prop. 65 Components

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 <a href="www.advancedbiomatrix.com">www.advancedbiomatrix.com</a> for additional terms and conditions of sale.

#### **Preparation Information:**

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