

# Safety Data Sheet

Version 3.10 Revised: 2016-05-02

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

**Product Name** Elastase, Porcine Pancreatic

Other means of identification

**Product Code(s)** 

A4126

UN/ID no. Synonyms

No information available

Product Use For Laboratory Research Use Only.

Supplier/Manufacturer

Biomatik Corporation 9-140 McGovern Dr.

Cambridge, Ontario N3H 4R7

Canada

Telephone Number 1-519-489-7195
E-mail Address info@biomatik.com

Emergency Telephone Number Chemtrec 1-800-424-9300

# 2. HAZARDSIDENTIFICATION

## Classification

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2a
Respiratory sensitisation	Category 1
Specific target organ toxicity (Single exposure)	Category 3

#### Label elements

# **Emergency Overview**

#### Danger

## Hazard statements

H315 - Causes skin irritation

H319 - Eye Irritation

H334 – Respiratory Sensitisation

H335- May cause damage to organs through Single Exposure





Appearance Physical State Powder Odor

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not get in eyes, on skin, or on clothing

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep cool

## **Precautionary Statements - Response**

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection.

Wear respiratory protection.

IF ON SKIN: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up. Dispose of contents/ container to an approved waste disposal plant.

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Not regulated

Other Information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Elastase, Porcine Pancreatic	39445-21-1	254-453-6	95-100	Not applicable

4. FIRST AID MEASURES

**First Aid Measures** 

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact**Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen.

**Ingestion**Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth

to an unconscious person.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable Extinguishing Media No information available.

#### Specific Hazards Arising from the Chemical

No information available.

**Hazardous Combustion** 

**Products** 

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

**Personal protection** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

## Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after

material pickup is complete. Cover with an activated carbon adsorbent.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

**Handling** Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Recommended storage temperature 2 - 8 °C

Incompatible Products Strong oxidizers. Metals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

**Exposure Guidelines**This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Elastase, Porcine	=	-	-
Pancreatic			

## **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical State Powder

AppearanceOdorNo information available

ColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u>

pH No information available
Melting point/freezing point No information available
Boiling Point/Range No information available
Flash Point (High in °C) No information available
Evaporation Rate No information available
Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
No information available

Specific Gravity 1.14

Water Solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

Other Information

Softening Point
Molecular Weight
VOC Content
Density
No information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

## **Chemical Stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

## **Incompatible Materials**

Strong oxidizers. Metals.

## **Hazardous Decomposition Products**

Decomposition products under fire conditions

## 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Product Information**

**Inhalation** Toxic by inhalation.

Eye Contact Irritating to eyes.

**Skin Contact** May be fatal if absorbed through skin.

**Ingestion** Toxic if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Elastase, Porcine Pancreatic	-	-	-

#### Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Elastase, Porcine	-	-	-	-
Pancreatic				

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.
No information available.

## Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Elastase, Porcine	<del>-</del>	=	=
Pancreatic			

## Persistence and Degradability

No information available.

## **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Elastase, Porcine Pancreatic	-

Other Adverse Effects No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Elastase, Porcine Pancreatic	-	-	-	-

Chemical Name	California Hazardous Waste Status
Elastase, Porcine	-
Pancreatic	

# 14. TRANSPORTINFORMATION

DOT

Not dangerous good

<u>IATA</u>

Not dangerous good

## 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies **KECL** Complies **PICCS** Complies **AICS** Complies

## Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **U.S. Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Elastase, Porcine Pancreatic	-

## SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Elastase, Porcine Pancreatic	-	-	-	-

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Elastase, Porcine Pancreatic	-	-	-

## U.S. State Regulations

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
Elastase, Porcine Pancreatic	-

## **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Elastase, Porcine	-	-	-
Pancreatic			

## **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not regulated

# **16. OTHER INFORMATION**

## Disclaimer

The information provided on this MSDS 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.

**End of Safety Data Sheet**