

# **Safety Data Sheet**

Version 3.10 Revised: 2016-05-02

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Deoxyribonuclease I, from bovine pancreas

Other means of identification

Product Code(s) A4193

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. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

#### WHMIS Classification

Not WHMIS controlled.

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

Label elements

Health hazard: 0 Flammability: 0 Physical hazards: 0

**Emergency Overview** 

Appearance: Powder, beige Physical State: Solid Odor:

#### Hazards not otherwise classified (HNOC)

Possible sensitizer

# **Other Information**

# **Potential Health Effects**

InhalationMay be harmful if inhaled. May cause respiratory tract irritation.SkinMay be harmful if absorbed through skin. May cause skin irritation.

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Deoxyribonuclease I	9003-98-9	232-667-0	<=100%	N/A

#### 4. FIRST AID MEASURES

#### **First Aid Measures**

Eye Contact Flush eyes with water as a precaution.

**Skin Contact** Wash off with soap and plenty of water.

**Inhalation** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms/Effects** 

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** 

# 5. FIRE-FIGHTING MEASURES

# Suitable Extinguishing Media

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

# Specific Hazards Arising from the Chemical

NONE

**Explosion Data** 

Sensitivity to Mechanical Impact no data available
Sensitivity to Static Discharge no data available

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

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

#### Personal protection

Avoid dust formation. Avoid breathing vapours, mist or gas

#### **Environmental Precautions**

#### **Environmental Precautions**

Do not let product enter drains

#### Methods and material for containment and cleaning up

#### **Methods for Containment / Cleaning Up**

Sweep up and shovel. Keep in suitable, closed containers for disposal

#### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

#### Handling

Provide appropriate exhaust ventilation at places where dust is formed

# Conditions for safe storage, including any incompatibilities

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

Keep in a dry place.

#### **Incompatible Products**

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Deoxyribonuclease I	-	-	-

#### **Appropriate engineering controls**

#### **Engineering Measures**

# Individual protection measures, such as personal protective equipment

#### **Eye/Face Protection**

**Skin and Body Protection** 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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break

through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile

rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in

solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an

approval for any specific use scenario

Respiratory Protection Respiratory protection is not required. Where protection from nuisance levels of dusts

are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU)

**Hygiene Measures** 

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Appearance

Appearance Odor
Color Odor Threshold

Property Values Remarks • Method

pH no data available
Melting point/freezing point no data available
Boiling Point/Range no data available
Flash Point (High in °C) no data available

**Evaporation Rate** 

Flammability (solid, gas)

Flammability Limit in Air no data available **Upper flammability limit:** no data available no data available Lower flammability limit: Vapor pressure no data available **Vapor Density** no data available **Specific Gravity** no data available Water Solubility Solubility in other solvents no data available **Partition coefficient** no data available **Autoignition Temperature** no data available

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no data available **Decomposition Temperature** Kinematic viscosity no data available **Dynamic viscosity** no data available **Explosive Properties** no data available **Oxidizing Properties** no data available

**Other Information** 

**Softening Point Molecular Weight VOC Content** 

no data available

no data available

**Density Bulk Density** 

# 10. STABILITY AND REACTIVITY

# Reactivity

N/A

# **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

no data available

#### **Conditions to Avoid**

no data available

# **Incompatible Materials**

Strong oxidizing agents

#### **Hazardous Decomposition Products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. Other decomposition products - no data available

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

Inhalation no data available

Eye Contact no data available

Skin Contact no data available

Ingestion no data available

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Deoxyribonuclease I	-	-	-

#### Information on toxicological effects

#### **Symptoms**

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

#### Sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals

#### **Mutagenic Effects**

no data available

#### 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.

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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Deoxyribonuclease I	-	-	-	-

# **Reproductive Toxicity**

no data available

### STOT - single exposure

no data available

#### STOT - repeated exposure

no data available

#### **Aspiration hazard**

#### Numerical measures of toxicity - Product Information

#### Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

# Signs and Symptoms of Exposure

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

#### Synergistic effects

no data available

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Deoxyribonuclease I	-	-	-

Persistence and Degradability

no data available

**Bioaccumulation/Accumulation** 

no data available

Chemical Name	Partition coefficient
Deoxyribonuclease I	-

#### **Other Adverse Effects**

no data available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

#### **Waste Disposal Method**

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

### **Contaminated Packaging**

Dispose of as unused product

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Deoxyribonuclease I	-	-	-	-
Chemical Name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Chemical Name  Deoxyribonuclease I		RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes

Chemical Name	California Hazardous Waste Status
Deoxyribonuclease I	-

# 14. TRANSPORTINFORMATION

# DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

# **IATA**

Not dangerous goods

# 15. REGULATORY INFORMATION

# **WHMIS Classification**

Not WHMIS controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations

# **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**