

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING**

<b>Product Name</b>	Glucose Oxidase >100U/MG
<b>Catalog No.</b>	A2707
<b>Recommended Use</b>	For Further Manufacturing Use Only Not for Human or Animal Drug Use
<b>Synonyms</b>	CORYLOPHYLINE * DEOXIN-1 * E.C. 1.1.3.4 * GLUCOSE AERODEHYDROGENASE * GLUCOSE OXIDASE * BETA-D-GLUCOSE OXIDASE * BETA-D-GLUCOSE:QUINONE OXIDOREDUCTASE * MICROCID * NOTATIN * PENATIN *
<b>Company</b>	
Biomatik Corporation 9-140 McGovern Dr. Cambridge, Ontario N3H4R7	
<b>Emergency Telephone Number</b>	519-590-7717
<b>Company Phone Number</b>	1-800-836-8089
<b>E-mail Address</b>	info@biomatik.com

**2. HAZARDS IDENTIFICATION****GHS - Classification**

<b>Classification</b>	Skin Irritant 2 Eye Irritant 2 Respiratory Sensitizer 1 Skin Sensitizer 1
<b>Signal Word</b>	Danger



<b>Hazard Statements</b>	H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
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**Precautionary Statements** P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Glucose oxidase	EEC No. 232-601-0	Not available	9001-37-0	95-100	-

### 4. FIRST AID MEASURES

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and 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 breathing becomes difficult, give oxygen

**Ingestion** Clean mouth with water and afterwards drink plenty of water

**Notes to Physician** Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties** Not flammable

**Flash Point** Not determined

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, water spray or regular foam

**Hazardous Combustion Products** Carbon oxides

**Explosion Data**

Sensitivity to Mechanical Impact	Not sensitive
Sensitivity to Static Discharge	Not sensitive

**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** Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation

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

**Methods for Cleaning Up**

Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

**Handling**

Handle in accordance with good industrial hygiene and safety practice.

**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glucose oxidase 9001-37-0			

**Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems

**Personal Protective Equipment**

**Eye/Face Protection**

Tightly fitting safety goggles.

**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 provided in accordance with current local regulations

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

Yellow

**Odor**

No information available

**Odor Threshold**

No information available

**Decomposition Temperature °C**

No information available

**Freezing Point**

No information available

**Initial Boiling Point**

No information available

**Physical State**

Crystalline Powder

**pH**

No data available

**Flash Point**

Not determined

**Autoignition Temperature**

No data available

**Boiling Point/Range**

No data available

**Melting Point/Range**

No data available

**Flammability Limits in Air**

**Upper** No data available **Lower** No data available

**Explosive Properties**

No information available

**Oxidizing Properties**

No information available

**Evaporation Rate**

No data available

**MMHG @ 37.8 C**

No data available **Vapor**

**Density**

No data available **Specific**

**Gravity**

No data available **Solubility**

No information available

**Partition Coefficient**

No data available

**(n-octanol/water)**

**Viscosity**

No information available

## 10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	None known based on information supplied
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	Carbon oxides
Hazardous Polymerization	Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Product Information	Causes skin, eye and respiratory tract irritation. Sensitizer.
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### Chronic Toxicity

Chronic Toxicity	No known effect based on information supplied
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Target Organ Effects	None known.
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated

## 13. DISPOSAL CONSIDERATIONS

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

## 14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

## 15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Glucose oxidase	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Glucose oxidase 9001-37-0 ( 95-100 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
IECSC	Does not Comply
KECL	Complies
PICCS	Does not Comply
AICS	Complies

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### 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)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

**CERCLA**

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Glucose oxidase		X			

**International Regulations**

**Mexico - Grade** No information available.

**Canada**

**WHMIS Hazard Class**

D2A Very toxic materials

D2B Toxic materials



## 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 MSDS**