

## MATERIAL SAFETY DATA SHEET

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### SECTION 1 – PRODUCT INFORMATION

- Product Name: Dr.Nzyme<sup>®</sup> Enzyme Gel Breaker
- Chemical Family: Enzyme

### SECTION 2 – COMPOSITION / INGREDIENT INFORMATION

Chemical Name	CAS Number	Amount
$\beta$ -Glycosidase	37288-54-3	6%
Glycerol	56-81-5	32%
FD&C Blue	3844-45-9	0.2%
Sodium benzoate	532-32-1	0.04%
Water	7732-18-5	61.76%

### SECTION 3 – HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

##### CAUTION!

Liquid product but may cause respiratory tract irritation if inhaled.

May cause eye irritation.

May cause skin irritation.

If spilled, may cause slip hazard.

## POTENTIAL HEALTH EFFECTS

Prolonged or repeated contact may result in moderate eye or skin irritation. Ingestion may result in moderate irritation and include nausea and vomiting. Inhalation may cause allergic reaction in sensitized individuals.

### SECTION 4 – FIRST AID MEASURES

**Skin:** Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, seek medical attention.

**Eyes:** Immediately flush eyes with copious amounts of running water for 15 minutes. If irritation develops, seek medical attention.

**Ingestion:** If swallowed, drink water, do not induce vomiting, and consult with a physician. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

**Inhalation:** Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

### SECTION 5 – FIRE FIGHTING MEASURES

**Flash Point:** >200°F

**Extinguishing Media:** Use carbon dioxide, dry chemical powder, or appropriate foam.

**Fire Fighting Procedures:** Firefighters should wear self-contained breathing apparatus and appropriate protective clothing. **Unusual Hazards:** There are no known unusual fire or explosion hazards.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

Ventilate area and wash spill site after material is removed. Wear approved respirator, chemical safety goggles and appropriate chemical-resistant gloves. For small spills, flush spill area with water or add absorbent, sweep up and dispose as appropriate. For large spills, dike to contain and pump into containers for appropriate disposal.

## SECTION 7 – STORAGE AND HANDLING

For maximum shelf life, recommend storage at 4 - 8°C (40 - 46°F) in the original container. Product can be stored at ambient temperature (22°C, 72°F). Keep container closed when not in use. Keep away from heat, flame, sparks and other ignition sources. Keep away from oxidizing materials.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide adequate ventilation. Use mechanical exhaust system for closed areas.

**Work Practices:** Avoid contact with eyes, skin and clothing. Wear appropriate chemical splash goggles, chemical resistant gloves, coveralls or apron, and boots as necessary to prevent contact.

## SECTION 9 – PHYSICAL PROPERTIES

Color:	Blue
Form/Appearance:	Liquid
Odor:	Slight
Specific Gravity:	1.05-1.15
pH:	6.0-7.0
Boiling Point:	NOT AVAILABLE
Freezing Point:	NOT AVAILABLE
Solubility:	Complete

## SECTION 10 – REACTIVITY DATA

Stability:	Stable
Incompatibility:	None known
Conditions/Hazards to Avoid:	None known
Hazardous decomposition products:	None known

Polymerization:	Does not occur
Corrosive Properties:	None
Conditions/Hazards to Avoid:	None known
Oxidizer Properties:	None

## SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of entry include eye and skin contact, ingestion and inhalation.

Toxicology Test Data:

Rat, Acute Oral:	NOEL > 1001mg TOS/ kg/ day
Rat, Acute Inhalation:	LC50 > 2.20 mg/L
Rabbit, Eye Irritation:	Non-irritating
Rabbit, Dermal Irritation:	Non-corrosive
Guinea Pig, Skin Sensitivity:	Does not elicit delayed contact skin sensitivity

## SECTION 12 – ECOLOGICAL INFORMATION

The material is believed not to be dangerous to the environment.

## SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Incinerate in accordance with applicable regulations is the recommended method. Waste water may be sent to a sanitary sewer treatment facility in accordance with any local agreement, a permitted waste treatment facility, or discharged under a permit. Disposal should be in accordance with applicable Federal, State, and local regulations.

## SECTION 14 – TRANSPORTATION INFORMATION

This product is not subject to DOT regulations.

Not classified as hazardous under transportation regulations.

No special transportation precautions necessary.

See section 6 for spill-leak environmental instructions.

Contact Biteomics corporation for additional transportation information.

## SECTION 15 – REGULATORY INFORMATION

TSCA Inventory Status: the enzyme and expression host are listed to on the current EPA TSCA inventory and have been approved for entry into interstate commerce.

## SECTION 16 – OTHER INFORMATION

### NFPA Ratings

Health:	1 slight hazard
Flammability:	1 slight hazard
Reactivity:	0 minimal hazard

### HMIS Ratings

Health:	1 slight hazard
Flammability:	1 slight hazard
Physical hazard:	0 minimal hazard

The enclosed information is based on information Biteomics Corporation believes to be accurate, however, it should not be considered all-inclusive, as it is to serve only as a guide. Proper handling should be exercised at all times. Dalian Biteomics Corporation shall not be held liable for any damage resulting from the handling or contact with this product.