

NOVOZYMES BIOLOGICALS, INC.
111 Kessler Mill Road
Salem, VA 24153

Telephone number: 540-389-9361 Fax: 540-389-9364

Emergency Contact: 540-389-9361 CHEMTREC: 1-800-424-9300

Material Safety Data Sheet

Date:11/21/2002

SECTION I—PRODUCT IDENTIFICATION

NAME: –BI-CHEM[®] BioFree Plus	PRODUCT CODE - 7002031
--	-------------------------------

DOT CLASS: Not Regulated.

UN NUMBER: NA

PROPER SHIPPING NAME: NA

HMIS RATING & CANADIAN WHMIS CLASSIFICATION

HEALTH	1	CANADIAN WHMIS CLASSIFICATION:	D 2 B
FIRE	0		
REACTIVITY	0		

SECTION II - INGREDIENTS

ALL COMPONENTS APPEAR ON THE TSCA INVENTORY. COMPONENTS NOT LISTED ARE EITHER NON HAZARDOUS OR IN CONCENTRATIONS OF LESS THAN 1%.

Ingredient Name	CAS Number	OSHA PEL	ACGIH TLV/TWA
Viable Bacterial Cultures	NA	NA	NA
2-Bromo-2-nitro-1,3-propanediol	52-51-7	NA	NA
Sodium Chloride	7647-14-5	NA	NA

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	No Data	Appearance and Odor	Tan free flowing grain like substance, earthy odor.
Bulk Density	Approximately 0.66-0.77 gm/cm3	Melting Point	No Data
pH	NA	Vapor Density	No Data
Vapor Pressure	No Data	Solubility	Minimal

NOVOZYMES BIOLOGICALS, INC.
111 Kessler Mill Road
Salem, VA 24153

Telephone number: 540-389-9361 Fax: 540-389-9364

Emergency Contact: 540-389-9361 CHEMTREC: 1-800-424-9300

SECTION IV – FIRE/EXPLOSION

Flash Point:	No data
Flash Point Method Used:	NA
LEL:	Not know
UEL:	Not known

Extinguishing Media: Water spray, carbon dioxide or dry chemical.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None known.

SECTION V – REACTIVITY DATA

Stable: X **Unstable:**

Incompatibility: Strong acids or alkali compounds may inactivate biological cultures.

Hazardous Decomposition or By Products: Not Known.

Hazardous Polymerization: Will not occur.

SECTION VI – HEALTH HAZARD DATA

Acute Health Affects

Routes of Entry:	Inhalation: yes	Absorption: no	Ingestion: yes	Eyes: no
-------------------------	------------------------	-----------------------	-----------------------	-----------------

Eyes: This product may cause eye irritation.

Skin Contact: Could cause mild skin irritation after prolonged contact.

Inhalation: Avoid breathing dust from this product. Inhaling dust from this product could cause irritation to the lungs and mucus membranes.

Ingestion: Ingestion of this product could cause irritation to the mouth and throat or cause choking.

Signs and Symptoms of Over Exposure: None Known

NOVOZYMES BIOLOGICALS, INC.
111 Kessler Mill Road
Salem, VA 24153

Telephone number: 540-389-9361 Fax: 540-389-9364

Emergency Contact: 540-389-9361 CHEMTREC: 1-800-424-9300

Aggravated Medical Conditions: None known, however persons with respiratory problems should avoid breathing dust from this product.

Supplemental Health Information: None

Emergency First Aid Procedures

Eye Contact: Rinse eyes with water for fifteen minutes, if irritation persists, see a physician.

Inhalation: Move person to fresh air, avoid breathing dust from product. If breathing problems develop, seek the care of a physician.

Skin Contact: Wash the product off the skin with soap and water, if irritation develops seek the care of a physician.

Ingestion: Do not induce vomiting, if victim is choking clear airway and seek medical attention.

SECTION VII – SPILL OR LEAK PROCEDURE

Steps to be taken in case material is spilled or leaked:

Waste Disposal Method: Contain and collect material, place in proper container for reuse or disposal. Dispose of materials in accordance with all federal, state and local laws.

Precautions To Be Taken In Handling and Storage: Store in a location away from children, food items and potable water.

Store in an area out of the direct sunlight, keep container closed when not in use, avoid storing in a damp environment.

Always wash hands with soap and water before handling food or smoking.

Use good chemical hygiene practices when working with any chemical.

Other Precautions: None

SECTION VIII – CONTROL MEASURES (PPE)

Respiratory Protection: Use a NIOSH approved dust mask to control nuisance dust.

Protective Gloves: Recommended. Disposable nitrile exam gloves are suitable for preventing prolonged contact with the skin.

Eye Protection: Safety glasses with side shields are recommended.

Other Protective Clothing: None required, however, avoid prolonged contact with the skin from soiled clothing.

Ventilation: Local exhaust should be sufficient. Avoid creating dust from the product. If used in a manner that creates dust, mechanical ventilation may be necessary.

NOVOZYMES BIOLOGICALS, INC.
111 Kessler Mill Road
Salem, VA 24153

Telephone number: 540-389-9361 Fax: 540-389-9364

Emergency Contact: 540-389-9361 CHEMTREC: 1-800-424-9300

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine it's environmental regulatory compliance obligations under any applicable federal, state and local laws.