

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

Telephone Number: (540) 389-9361

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**Material Safety Data Sheet****Date: 02/20/2002****SECTION I - PRODUCT IDENTIFICATION****NAME: BI-CHEM-MSB 20X NF****PRODUCT CODE - 9405****DOT CLASS:** Non-regulated**UN NUMBER:** NA**PROPER SHIPPING NAME:** NA**HMIS RATING & CANADIAN WHMIS CLASSIFICATION****HEALTH 1****FIRE 0****REACTIVITY 0****CANADIAN WHMIS CLASSIFICATION:****D 2 B****SECTION II - INGREDIENTS**

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

<b>Ingredients Name</b>	<b>CAS Number</b>	<b>OSHA PEL</b>	<b>ACGIH TLV/TWA</b>
Viable Bacterial Cultures	NA	NA	NA
Water	7732-18-5	NA	NA
Tetra sodium ethylenediaminetetraacetate	64-02-8	NA	NA

**SECTION III - PHYSICAL CHARACTERISTICS**

<b>Boiling Point</b>	100C	<b>Appearance and odor</b>	Opaque liquid, slight odor.
<b>Specific Gravity</b>	Approximately 1	<b>Melting Point</b>	NA
<b>pH</b>	7.5-9.2	<b>Vapor Density</b>	Equivalent to water
<b>Vapor Pressure</b>	Equivalent to water	<b>Solubility</b>	Complete

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#### **SECTION IV - FIRE/EXPLOSION**

<b>Flash Point:</b>	NA
<b>Flash Point Method Used:</b>	NA
<b>LEL:</b>	NA
<b>UEL:</b>	NA

**Extinguishing Media:** Water spray, carbon dioxide and dry chemical powder.

**Special Fire Fighting Procedures:** None

**Unusual Fire and Explosion Hazards:** None known.

#### **SECTION V - REACTIVITY DATA**

**Stable:** X

**Incompatibility:** Not known.

**Hazardous Decomposition or By Products:** Not known.

**Hazardous Polymerization:** Will not occur.

#### **SECTION VI - HEALTH HAZARD DATA**

Acute Health Affects

<b>Routes of Entry:</b>	<b>Inhalation: NO</b>	<b>Absorption: Yes</b>	<b>Ingestion: Yes</b>	<b>Eyes: Yes</b>
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**Eyes:** This product may cause eye irritation.

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

**Inhalation:** Inhaling mist from this product could cause irritation to the lungs and mucus membranes.

**Ingestion:** Ingestion may result in abdominal pain, nausea and vomiting.

**Conditions to Avoid:** Strong acids or alkali compounds may inactivate biological cultures.

**Signs and Symptoms of Over Exposure:** None Known.

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

**Supplement 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 and avoid breathing mist 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:** Watch victim for any signs of illness, induce vomiting only if advised by a physician.

### **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 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.

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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.