

**CHEMAX**  
CORPORATION

P. O. Box 7453, Beaumont, TX 77728-7453  
Phone (409) 866-4232 FAX (409) 866-4424

**MATERIAL SAFETY DATA SHEET**

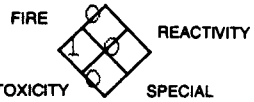
**EMERGENCY PHONE 1-800-346-0132**

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD (HSC) 29 CFR 1910, 1200, STANDARD MUST BE CONSULTED FOR SPECIFIC REQUIREMENTS.

HMIS SYMBOL	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

HMIS	NFPA
SEVERE 4	EXTREME
SERIOUS 3	HIGH
MODERATE 2	MODERATE
SLIGHT 1	SLIGHT
MINIMAL 0	INSIGNIFICANT

NFPA SYMBOL



B311-2

BIO MAX II

**PRODUCT IDENTIFICATION:**

DATE: 01/02/03

**SECTION I: HAZARDOUS INGREDIENTS**

CAS NUMBER	CHEMICAL NAME	%	TLV (PPM)
9014-01-1	BACTERIAL SUBTILISIN PROTEASE	< 1%	0.06 mg/M3
34398-01-1	LINEAR ALCOHOL ETHOXYLATE	5%	N/E
	BACTERIAL CULTURES	> 59%	N/E
68920-42-3	BACTERIAL COMPLEX		N/E
9000-90-5	AMYLASE		N/E
9001-62-1	LIPASE		N/E
9012-54-8	CELLULASE		N/E
144-55-8	SODIUM BICARBONATE	20%	N/E
7558-79-4	DISODIUM PHOSPHATE	10%	N/E
7558-80-7	MONOSODIUM PHOSPHATE	5%	N/E

INGREDIENTS NOT PRECISELY IDENTIFIED ARE PROPRIETARY OR NON-HAZARDOUS. VALUES AREN'T PRODUCT SPECIFICATIONS.

**SECTION II: PHYSICAL DATA**

BOILING POINT: N/A  
 VAPOR PRESSURE: N/E  
 VAPOR DENSITY: N/A  
 SOLUBILITY IN WATER: DISPERSIBLE IN WATER  
 SPECIFIC GRAVITY: 1  
 PERCENT VOLATILE BY VOLUME: N/E  
 EVAPORATION RATE: N/A  
 P H: 6.0 to 8.0  
 APPEARANCE AND ODOR: AMBER, TAN COLOR & CHARACTERISTIC, FERMENTATION ODOR

**SECTION III: FIRE AND EXPLOSION DATA**

FLASH POINT: N/D  
 FLAMMABLE LIMITS: N/E  
 EXTINGUISHING MEDIA: NO SPECIAL REQUIREMENTS - WATER AND FOAM ARE SUITABLE  
 SPECIAL FIREFIGHTING PROCEDURES: NONE - NO DISTINCTIVELY HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN TO EXIST. SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS.  
 UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN

SECTION IV: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: N/E

EFFECTS OF OVEREXPOSURE: NO EFFECT IF INGESTED IN SMALL AMTS; IRRITATION OF THE MOUTH, PHARYNX, ESOPHAGUS, AND STOMACH; EYE AND POSSIBLE SKIN IRRITANT; AND AN ALLERGIC RESPONSE IS POSSIBLE IF REPEATED OR PROLONGED INHALATION.

EMERGENCY FIRST AID PROCEDURES:

SKIN: WASH WITH SOAP & WATER

EYES: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.

INGESTION: DRINK WATER OR MILK TO DILUTE. INDUCE VOMITING ONLY IF ADVISED BY PHYSICIAN OR POISON CONTROL CENTER. CALL POISON CONTROL CTR.

INHALATION: REMOVE TO FRESH AIR

SECTION V: REACTIVITY DATA

STABILITY DATA: STABLE UNDER NORMAL CONDITIONS

INCOMPATIBILITY: STRONG ACIDS OR ALKALI COMPOUNDS CAN INACTIVATE CULTURES

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI: SPILL OR LEAK PROCEDURES

SMALL SPILLS: FLUSH TO WASTE TREATMENT SEWER. PRODUCT IS BIODEGRADABLE!

LARGE SPILLS: CONTAIN AND COLLECT FOR REUSE

AVOID BREATHING OF VAPORS AND ABSORPTION THROUGH SKIN.

FOLLOW STATE AND LOCAL REGULATIONS FOR DISPOSAL OF LARGE NON-RECLAIMABLE SPILLS.

SECTION VII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: OSHA-NIOSH APPROVED RESPIRATOR BASED ON THE CONTAINMENT LEVELS FOUND IN THE WORKPLACE.

VENTILATION: TO MAINTAIN EXPOSURE BELOW TLV(s)

PROTECTIVE GLOVES: RECOMMENDED

EYE PROTECTION: CHEMICAL TYPE FACE SHIELD RECOMMENDED

OTHER PROTECTIVE EQUIPMENT: EYEWASH STATION IN WORK AREA

REMOVE AND WASH CONTAMINATED CLOTHING & FOOTWEAR BEFORE REUSE

SECTION VIII: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: PREVENT SKIN AND EYE CONTACT. AVOID CREATING AEROSOL. WASH HANDS THOROUGHLY WITH SOAP & WATER AFTER USE.

OTHER PRECAUTIONS: READ & FOLLOW THE DIRECTIONS ON THE PRODUCT LABEL. THEY ARE YOUR BEST GUIDE TO USING THIS PRODUCT IN THE MOST EFFECTIVE MANNER, AND THEY ALSO GIVE YOU THE NECESSARY SAFETY PRECAUTIONS TO PROTECT YOUR HEALTH.