



CHEMAX
CORPORATION

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

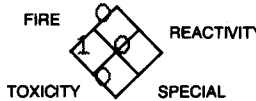
MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE 1-800-346-0132

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: 01/02/00

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
 PH: 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: