MATERIAL SAFETY DATA SHEET
REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

MANUFACTURER'S NAME: BIO BASIC INC.
TEL: (905) 474 4493
FAX: (905) 474 5794
FOR CHEMICAL EMERGENCY: (416) 995 9730
ADDRESS: 160 TORBAY ROAD, MARKHAM ONTARIO L3R 1G6 CANADA
DATE PREPARED: AUGUST 16, 2007

SECTION 1 - PRODUCT AND COMPANY INFORMATION
PRODUCT NAME OXACILLIN SODIUM SALT
PRODUCT NUMBER OB0677

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT
SUBSTANCE NAME CAS # SARA 313
OXACILLIN SODIUM SALT 1173-88-2 NO
FORMULA C19H19N3O5S.NA
SYNONYMS BACTOCILL * BRISTOPEN * BRL 1400 * CRYPTOCILLIN *
5-METHYL-3-PHENYL-4-ISOXAZOLYL PENICILLIN, SODIUM *
MICROPENIN * MONOSODIUM OXACILLIN * OXABEL *
OXACILLIN SODIUM * OXACILLIN SODIUM SALT * P 12 *
PENICILLIN P-12 * PROSTAPHLIN * SODIUM OXACILLIN *
SQ 16423 * STAPENOR * STAPHCILLIN V
RTECS NUMBER: XH9100000

SECTION 3 - HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW
CAUTION: AVOID CONTACT AND INHALATION.
HMIS RATING
HEALTH: 2*
FLAMMABILITY: 0
REACTIVITY: 0
NFPA RATING
HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0
*ADDITIONAL CHRONIC HAZARDS PRESENT.
FOR ADDITIONAL INFORMATION ON TOXICITY, PLEASE REFER TO SECTION 11.

SECTION 4 - FIRST AID MEASURES
ORAL EXPOSURE
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.
INHALATION EXPOSURE
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN.
DERMAL EXPOSURE
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.
EYE EXPOSURE
IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF
WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5 - FIRE FIGHTING MEASURES
FLASH POINT
N/A
AUTOIGNITION TEMP
N/A
FLAMMABILITY
N/A
EXTINGUISHING MEDIA
SUITE: WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER, OR APPROPRIATE FOAM.

FIREFIGHTING
PROTECTIVE EQUIPMENT: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

SPECIFIC HAZARD(S): EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
PROCEDURE(S) OF PERSONAL PRECAUTION(S)
EXERCISE APPROPRIATE PRECAUTIONS TO MINIMIZE DIRECT CONTACT WITH SKIN OR EYES AND PREVENT INHALATION OF DUST.

METHODS FOR CLEANING UP
SPILLED MATERIAL SHOULD BE CAREFULLY WIPE UP OR MOISTENED WITH WATER AND REMOVED.

SECTION 7 - HANDLING AND STORAGE
HANDLING
USER EXPOSURE: AVOID INHALATION. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE.

STORAGE
SUITE: KEEP TIGHTLY CLOSED. STORE AWAY FROM HEAT.
STORE AT 2-8°C

SECTION 8 - EXPOSURE CONTROLS / PPE
ENGINEERING CONTROLS
USE ONLY IN A CHEMICAL FUME HOOD. SAFETY SHOWER AND EYE BATH.

PERSONAL PROTECTIVE EQUIPMENT
RESPIRATORY: USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU). WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE RESPIRATOR WITH MULTI-PURPOSE COMBINATION (US) OR TYPE ABEK (EN 14387) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR.

HAND: COMPATIBLE CHEMICAL-RESISTANT GLOVES.
EYE: CHEMICAL SAFETY GOGGLES.
GENERAL HYGIENE MEASURES
WASH THOROUGHLY AFTER HANDLING.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES
APPEARANCE PHYSICAL STATE: SOLID
COLOR: WHITE
FORM: FINE CRYSTALS
PROPERTY VALUE AT TEMPERATURE OR PRESSURE
MOLECULAR WEIGHT 423.4 AMU
PH N/A
BP/BP RANGE N/A
MP/MP RANGE N/A
FREEZING POINT N/A
VAPOR PRESSURE N/A
VAPOR DENSITY N/A
SATURATED VAPOR CONC. N/A
SG/DENSITY N/A
BULK DENSITY N/A
ODOR THRESHOLD N/A
VOLATILE% N/A
VOC CONTENT N/A
WATER CONTENT < 10 %
SOLVENT CONTENT N/A
EVAPORATION RATE N/A
VISCOSITY N/A
SURFACE TENSION N/A
PARTITION COEFFICIENT N/A
DECOMPOSITION TEMP. N/A
FLASH POINT N/A
EXPLOSION LIMITS N/A
FLAMMABILITY N/A
AUTOIGNITION TEMP N/A
REFRACTIVE INDEX N/A
OPTICAL ROTATION N/A
MISCELLANEOUS DATA N/A
SOLUBILITY SOLUBILITY IN WATER: 50 MG/ML H2O CLEAR, COLORLESS
N/A = NOT AVAILABLE

SECTION 10 - STABILITY AND REACTIVITY
STABILITY
STABLE: STABLE.
HAZARDOUS DECOMPOSITION PRODUCTS
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, SULFUR OXIDES.
HAZARDOUS POLYMERIZATION
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11 - TOXICOLOGICAL INFORMATION
ROUTE OF EXPOSURE
SKIN CONTACT: MAY CAUSE SKIN IRRITATION.
SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
EYE CONTACT: MAY CAUSE EYE IRRITATION.
INHALATION: MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. MAY BE HARMFUL IF INHALED.
INGESTION: MAY BE HARMFUL IF SWALLOWED.
SENSITIZATION
SENSITIZATION: PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS IN CERTAIN SENSITIVE INDIVIDUALS. SHOWS CROSS-ALLERGENICITY WITH PENICILLIN.
TOXICITY DATA
ORAL
RAT
> 10000 MG/KG
LD50
INTRAPERITONEAL
RAT
1500 MG/KG
LD50
SUBCUTANEOUS
RAT
3900 UG/KG
LD50
INTRAVENOUS
RAT
2150 UG/KG
LD50
ORAL
MOUSE
> 10000 MG/KG
LD50
SUBCUTANEOUS
MOUSE
2600 UG/KG
LD50
INTRAVENOUS
MOUSE
1399 MG/KG
LD50
REMARKS: BEHAVIORAL: ATAXIA. BEHAVIORAL: SOMNOLENCE (GENERAL DEPRESSED ACTIVITY). LUNGS, THORAX, OR RESPIRATION: DYSPNEA.

SECTION 12 - ECOLOGICAL INFORMATION
NO DATA AVAILABLE.

SECTION 13 - DISPOSAL CONSIDERATIONS
APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION
DOT
PROPER SHIPPING NAME: NONE
NON-HAZARDOUS FOR TRANSPORT: THIS SUBSTANCE IS CONSIDERED TO BE NON-HAZARDOUS FOR TRANSPORT.
IATA
NON-HAZARDOUS FOR AIR TRANSPORT: NON-HAZARDOUS FOR AIR TRANSPORT.

SECTION 15 - REGULATORY INFORMATION
EU ADDITIONAL CLASSIFICATION
S: 24/25-22
SAFETY STATEMENTS: AVOID CONTACT WITH SKIN AND EYES. DO NOT BREATHE DUST.
US CLASSIFICATION AND LABEL TEXT
US STATEMENTS: CAUTION: AVOID CONTACT AND INHALATION.
UNITED STATES REGULATORY INFORMATION
SARA LISTED: NO
CANADA REGULATORY INFORMATION
WHMIS CLASSIFICATION: THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR, AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.
DSL: NO
NDSL: NO
SECTION 16 - OTHER INFORMATION

DISCLAIMER
FOR R&D USE ONLY. NOT FOR DRUG, HOUSEHOLD OR OTHER USES.

WARRANTY
THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT
PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. THE
INFORMATION IN THIS DOCUMENT IS BASED ON THE PRESENT STATE OF OUR
KNOWLEDGE AND IS APPLICABLE TO THE PRODUCT WITH REGARD TO
APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT ANY
GUARANTEE OF THE PROPERTIES OF THE PRODUCT. BIOBASIC,
SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR
FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE
OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

COPYRIGHT 2007 BIOBASIC. LICENSE GRANTED TO MAKE UNLIMITED
PAPER COPIES FOR INTERNAL USE ONLY.