BIO BASIC INC.

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MATERIAL SAFETY DATA SHEET

REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

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

DATE PREPARED: AUGUST 13, 2007

SECTION 1 - PRODUCT AND COMPANY INFORMATION PRODUCT NAME CEPHALEXIN HYDRATE PRODUCT NUMBER CB0280

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT SUBSTANCE NAME CAS # SARA 313 CEPHALEXIN HYDRATE NONE NO FORMULA C16H17N3O4S.XH2O

SECTION 3 - HAZARDS IDENTIFICATION EMERGENCY OVERVIEW HARMFUL. MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT. HMIS RATING HEALTH: 3* FLAMMABILITY: 0 REACTIVITY: 0 NFPA RATING HEALTH: 3 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 SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN. 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** SUITABLE: 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) WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS, AND HEAVY RUBBER GLOVES. METHODS FOR CLEANING UP SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. SECTION 7 - HANDLING AND STORAGE HANDLING USER EXPOSURE: AVOID BREATHING DUST. AVOID CONTACT WITH EYES. SKIN, AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. STORAGE SUITABLE: KEEP TIGHTLY CLOSED. STORE AT 2-8℃ SECTION 8 - EXPOSURE CONTROLS / PPE ENGINEERING CONTROLS MECHANICAL EXHAUST REQUIRED. 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 DUST MASK TYPE N95 (US) OR TYPE P1 (EN 143) RESPIRATOR. OTHER: WEAR APPROPRIATE GOVERNMENT APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING. **GENERAL HYGIENE MEASURES** WASH THOROUGHLY AFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE REUSE. SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES APPEARANCE PHYSICAL STATE: SOLID COLOR: WHITE PROPERTY VALUE AT TEMPERATURE OR PRESSURE MOLECULAR WEIGHT 347.4 AMU PH N/A **BP/BP RANGE N/A** MP/MP RANGE N/A

QF26 Rev0

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 N/A SOLVENT CONTENT N/A **EVAPORATION RATE N/A** VISCOSITY N/A SURFACE TENSION N/A PARTITION COEFFICIENT LOG KOW: 0.65 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 SOLVENT: 50 MG/ML NH4OH 1 M CLEAR, YELLOW N/A = NOT AVAILABLE SECTION 10 - STABILITY AND REACTIVITY STABILITY STABLE: STABLE. MATERIALS TO AVOID: OXIDIZING AGENTS. 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: MAY BE HARMFUL IF INHALED. MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. INGESTION: MAY BE HARMFUL IF SWALLOWED. SENSITIZATION RESPIRATORY: MAY CAUSE ALLERGIC RESPIRATORY REACTION. SKIN: MAY CAUSE ALLERGIC SKIN REACTION. SIGNS AND SYMPTOMS OF EXPOSURE BECAUSE OF THE SIMILARITY IN STRUCTURE OF THE PENICILLINS AND CEPHALOSPORINS, THOSE WHO ARE ALLERGIC TO ONE CLASS OF AGENTS MAY MANIFEST CROSS-ALLERGENICITY WHEN A MEMBER OF THE OTHER CLASS IS ENCOUNTERED. EXPOSURE CAN CAUSE: DERMATITIS. NAUSEA, VOMITING, DIARRHEA. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED. SECTION 12 - ECOLOGICAL INFORMATION NO DATA AVAILABLE.

SECTION 13 - DISPOSAL CONSIDERATIONS APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. 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 SYMBOL OF DANGER: XN INDICATION OF DANGER: HARMFUL. R: 42/43 RISK STATEMENTS: MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT. S: 22-36/37-45 SAFETY STATEMENTS: DO NOT BREATHE DUST. WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE). US CLASSIFICATION AND LABEL TEXT INDICATION OF DANGER: HARMFUL. RISK STATEMENTS: MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT. SAFETY STATEMENTS: DO NOT BREATHE DUST. WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE). 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

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