

## BIO BASIC INC.

160 TORBAY ROAD MARKHAM ONTARIO L3R 1G6 CANADA

TEL: (905) 474 4493, (800) 313 7224 FAX: (905) 474 5794

### 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: June 18, 2007

#### **SECTION 1. ----- CHEMICAL IDENTIFICATION -----**

CODE: BS729

NAME: PENICILLIN

CAS#: 69-57-8

#### **SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----**

MF: C16H18N2O4S

EC NO: 200-710-2

#### SYNONYMS

AMERICAN PENICILLIN \* BENZYL PENICILLINIC ACID SODIUM SALT \*  
BENZYL PENICILLIN SODIUM \* BENZYL PENICILLIN SODIUM SALT \* CRYSTAPEN \*  
MYCOFARM \* NOVOCILLIN \* PEN-A-BRASIVE \* PENICILLIN-G, MONOSODIUM SALT  
\* PENICILLIN G, SODIUM \* PENILARYN \* SODIUM BENZYL PENICILLIN \* SODIUM  
BENZYL PENICILLIN G \* SODIUM BENZYL PENICILLINATE \* SODIUM PENICILLIN G  
• SODIUM PENICILLIN II \* VETICILLIN \*

#### **SECTION 3. ----- HAZARDS IDENTIFICATION -----**

LABEL PRECAUTIONARY STATEMENTS

IRRITANT

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

SENSITIZER

MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF  
WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING

#### **SECTION 4. ----- FIRST-AID MEASURES -----**

IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,  
CALL A PHYSICIAN.

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.

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
CALL A PHYSICIAN.

IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER  
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND  
SHOES. CALL A PHYSICIAN.

#### **SECTION 5. ----- FIRE FIGHTING MEASURES -----**

EXTINGUISHING MEDIA

WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.  
SPECIAL FIREFIGHTING PROCEDURES  
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO  
PREVENT CONTACT WITH SKIN AND EYES.  
UNUSUAL FIRE AND EXPLOSIONS HAZARDS  
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

**SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----**

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, BOOTS AND HEAVY GLOVES.  
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-----**

REFER TO SECTION 8.

**SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----**

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT  
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.  
MECHANICAL EXHAUST REQUIRED.

**SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----**

APPEARANCE

SOLID.

PHYSICAL PROPERTIES

SOLUBILITY:

WATER –SOLUBLE

POTENCY:

1,500 to 1,750 U/mg

**SECTION 10. -----STABILITY AND REACTIVITY -----**

STABILITY

STABLE.

INCOMPATIBILITIES

ACIDS

HEAVY METAL SALTS

OXIDIZING AGENTS

GLYCEROL

ALCOHOL

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

CARBON MONOXIDE, CARBON DIOXIDE

NITROGEN OXIDES

SULFUR OXIDES

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

ACUTE EFFECTS

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.

CAUSES EYE AND SKIN IRRITATION.

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS IN CERTAIN  
SENSITIVE INDIVIDUALS.

EXPOSURE CAN CAUSE:

DERMATITIS

GASTROINTESTINAL DISTURBANCES

RTECS #: XH9800000

4-THIA-1-AZABICYCLO(3.2.0)HEPTANE-2-CARBOXYLIC ACID,

3,3-DIMETHYL-7-OXO-6-(2-PHENYL

ACETAMIDO)-, MONOSODIUM SALT

TOXICITY DATA

ORL-RAT LD50:6916 MG/KG AMPMAR 39,259,1978

IVN-RAT LD50:3020 MG/KG ARZNAD 9,31,1959

PAR-RAT LD50:2900 UG/KG AACHAX -,863,1965

ORL-MUS LD50:>4 GM/KG ABANAE

3,540,1955/1956

IPR-MUS LD50:3314 MG/KG ABANAE

3,540,1955/1956

SCU-MUS LD50:4750 MG/KG NYKZAU 55,23,1959

IVN-MUS LD50:1500 MG/KG ARZNAD 9,31,1959

IMS-MUS LD50:2800 MG/KG ARZNAD 9,31,1959

ICE-MUS LD50:3800 UG/KG NYKZAU 55,23,1959

TARGET ORGAN DATA

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)

BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)

LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)

GASTROINTESTINAL (OTHER CHANGES)

BLOOD (LYMPHOMA INCLUDING HODGKIN'S DISEASE)

EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)

EFFECTS ON NEWBORN (GROWTH STATISTICS)

NUTRITIONAL AND GROSS METABOLIC (OTHER CHANGES)

TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)

TUMORIGENIC (TUMORS AT SITE OF APPLICATION)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR

COMPLETE INFORMATION.

**SECTION 12. ----- ECOLOGICAL INFORMATION -----**

DATA NOT YET AVAILABLE.

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

**SECTION 14. ----- TRANSPORT INFORMATION -----**

NOT REGULATED.

**SECTION 15. ----- REGULATORY INFORMATION -----**

EUROPEAN INFORMATION

R36/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN

R 42/43

MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

S: 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

NOES 1983: HZD X4380; NIS 1; TNF 137; NOS 5; TNE 7315; TFE 5985

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: D MELANOGASTER SEX-LINKED

LETHAL

**SECTION 16.----- OTHER INFORMATION-----**

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. BIO BASIC INC. 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.