

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

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ADDRESS: 160 TORBAY ROAD MARKHAM ONTARIO L3R 1G6 CANADA

DATE PREPARED: June 19, 2007

SECTION 1.----- CHEMICAL IDENTIFICATION-----

CODE #: BS731

NAME: TETRACYCLINE HYDROCHLORIDE

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

CAS #: 64-75-5

MF: C22H24N2O8

EC NO: 200-593-8

SYNONYMS

ACHROMYCIN HYDROCHLORIDE * ALA TET * AMYCIN, HYDROCHLORIDE *
ARTOMYCIN * BRISTACYCLINE * CANCYCLINE-250 * CEFRACTYCLINE TABLETS *
CHLORHYDRATE DE TETRACYCLINE (FRENCH) * CHLOROWODORKU TETRACYKLINY
(POLISH) * CYCLOPAR * DIACYCLINE * DUMOCYCLIN * HOSTACYCLINE *
MEDAMYCIN * MEPHACYCLIN * NCI-C55561 * NEOCYCLINE B * PALTET *
PANMYCIN HYDROCHLORIDE * PARTREX * PIRACAPS * POLYCYCLINE
HYDROCHLORIDE * POLYOTIC OINTMENT * QIDTET * QUADRACYCLINE * QUATREX *
REMICYCLIN * RICYCLINE * RO-CYCLINE * SANCLOMYCINE * SANCLOMYCINE *
STECLIN * STILCICLINA * SUBAMYCIN * SUMYCIN * SUPRAMYCIN * TEFILIN *
TELIN * TELOTREX * TET-CY * TETRABAKAT * TETRABID * TETRABLET *
TETRACAPS * TETRACHEL * TETRACICLINA CLORIDRATO (ITALIAN) *
TETRACOMPREN * TETRACYCLINE CHLOROXYDRATE * TETRACYCLINE
HYDROCHLORIDE * TETRA-D * TETRAKAP * TETRALUTION * TETRAMAVAN * TETRA-
WEDEL * TETROSOL * TOPICYCLINE * TRIPHACYCLIN * U-5965 * UNICIN *
UNIMYCIN * VETQUAMYCIN-324 *

SECTION 3.----- HAZARDS IDENTIFICATION -----

LABEL PRECAUTIONARY STATEMENTS

TOXIC

POSSIBLE RISK OF HARM TO THE UNBORN CHILD.

MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.

MAY CAUSE HARM TO BREASTFED BABIES.

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

DANGER OF CUMULATIVE EFFECTS.

CALIF. PROP. 65 REPRODUCTIVE HAZARD.

TARGET ORGAN(S):

LIVER

TEETH

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

WEAR SUITABLE PROTECTIVE CLOTHING.
DO NOT BREATHE DUST.

SECTION 4. ----- FIRST-AID MEASURES-----

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF
WATER FOR AT LEAST 15 MINUTES.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA
NONCOMBUSTIBLE.
USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.
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, RUBBER BOOTS AND HEAVY
RUBBER 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-----

WASH THOROUGHLY AFTER HANDLING.
DO NOT BREATHE DUST.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
NIOSH/MSHA-APPROVED RESPIRATOR.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
CHEMICAL SAFETY GOGGLES.
SAFETY SHOWER AND EYE BATH.
USE ONLY IN A CHEMICAL FUME HOOD.
KEEP TIGHTLY CLOSED.
STORE BELOW 0 C
LIGHT SENSITIVE

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

APPEARANCE AND ODOR
SOLID.
PHYSICAL PROPERTIES
MELTING POINT: 220 - 223 C

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

STABILITY
STABLE.

CONDITIONS TO AVOID
MAY DISCOLOR ON EXPOSURE TO LIGHT.
INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES
HYDROGEN CHLORIDE GAS
HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

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

ACUTE EFFECTS
CAUSES SKIN IRRITATION.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
CAUSES EYE IRRITATION.
MAY BE HARMFUL IF INHALED.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
MAY BE HARMFUL IF SWALLOWED.
PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS IN CERTAIN
SENSITIVE INDIVIDUALS.
EXPOSURE CAN CAUSE:
NAUSEA, VOMITING, DIARRHEA
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

CHRONIC EFFECTS
POSSIBLE RISK OF CONGENITAL MALFORMATION IN THE FETUS.
TARGET ORGAN(S):

LIVER
TEETH

BONES

RTECS #: QI9100000

2-NAPHTHACENECARBOXAMIDE,
4-(DIMETHYLAMINO)-1,4,4A,5,5A,6,11,12A-OCTAHYDRO-3,6,10,12,12A-
PENTAHYDROXY-6-METHYL-1,11-DIOXO-, MONOHYDROCHLORIDE
TOXICITY DATA

ORL-RAT LD50:6443 MG/KG TXAPA9 18,185,1971

IPR-RAT LD50:318 MG/KG GNRIDX 2,26,1968

SCU-RAT LD50:700 MG/KG TXAPA9 9,445,1966

IVN-RAT LD50:128 MG/KG FRPSAX 10,197,1955

ORL-MUS LD50:2759 MG/KG JPPMAB 16,33,1964

IPR-MUS LD50:368 MG/KG JPPMAB 16,33,1964

IVN-MUS LD50:157 MG/KG FRPSAX 10,197,1955

UNR-MUS LD50:105 MG/KG 40YJAX -,55,1979

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (TASTE FUNCTION)
LUNGS, THORAX OR RESPIRATION (FIBROSIS, INTERSTITIAL)

LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)

GASTROINTESTINAL (HYPERMOTILITY, DIARRHEA)

MATERNAL EFFECTS (UTERUS, CERVIX, VAGINA)

EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)

EFFECTS ON FERTILITY (ABORTION)

EFFECTS ON EMBRYO OR FETUS (EXTRA EMBRYONIC STRUCTURES)

EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)

EFFECTS ON EMBRYO OR FETUS (FETAL DEATH)

EFFECTS ON EMBRYO OR FETUS (OTHER EFFECTS TO EMBYRO OR FETUS)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
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 -----
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 -----
NOT REGULATED.

SECTION 15. ----- REGULATORY INFORMATION -----
EUROPEAN INFORMATION
R 60/61
MAY IMPAIR FERTILITY, MAY CAUSE HARM TO THE UNBORN CHILD.
R 23/24/25
TOXIC BY INHALATION IN CONTACT WITH SKIN AND IF SWALLOWED.
R 42/43
MAY CAUSE SENSITIZATION BY INHALATION. MAY CAUSE SENSITIZATION BY SKIN
CONTACT.
R 36/37/38
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
S 36/37/39
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.
REVIEWS, STANDARDS, AND REGULATIONS
OEL=MAK
NOHS 1974: HZD 83550; NIS 2; TNF 474; NOS 2; TNE 1795
NOES 1983: HZD 83550; NIS 4; TNF 680; NOS 15; TNE 22901; TFE 17276
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
NTP CARCINOGENESIS STUDIES (FEED);NO EVIDENCE:MOUSE,RAT
NTPTR* NTP-TR-363,1989
U.S. INFORMATION
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.
THIS PRODUCT IS OR CONTAINS CHEMICAL(S) KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE DEVELOPMENTAL TOXICITY.

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.