


b-Estradiol 17-acetate">



Product Number: 46551

Product Name: b-Estradiol 17-acetate



 Product Info


Valid 05/2003 - 07/2003

[Description / Pricing](#)

Sigma-Aldrich Canada Ltd.
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Oakville, Ontario L6H 6J8
Tel: (905) 829-9500

[Cert. of Analysis](#)

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M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1. - - - - - CHEMICAL IDENTIFICATION - - - - -
CATALOG #: 46551
NAME: 17B-ESTRADIOL 17-ACETATE (VETRANAL)
SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -
CAS #: 1743-60-8
MF: C20H26O3
RTECS DATA AND SYNONYMS SUPPLIED ARE FOR A CLOSELY RELATED COMPOUND.
SYNONYMS
ALTRAD * BARDIOL * DIHYDROFOLLICULAR HORMONE * DIHYDROFOLLICULIN *
DIHYDROMENFORMON * DIHYDROTHEELIN * 3,17-BETA-DIHYDROXYESTRA-1,3,5(10)
-TRIENE * 3,17-BETA-DIHYDROXY-1,3,5(10)-ESTRATRIENE * DIHYDROXYESTRIN
* 3,17-BETA-DIHYDROXYOESTRA-1,3,5-TRIENE * 3,17-BETA-DIHYDROXY-1,3,
5(10)-OESTRATRIENE * DIHYDROXYOESTRIN * DIMENFORMON * DIMENFORMON
PROLONGATUM * DIOGYN * DIOGYNETS * E(SUB 2) * 3,17-
EPIDIHYDROXYESTRATRIENE * ESTRADIOL-17-BETA * BETA-ESTRADIOL * 3,17-
BETA-ESTRADIOL * 17-BETA-ESTRADIOL * D-3,17-BETA-ESTRADIOL *
ESTRALDINE * ESTRA-1,3,5(10)-TRIENE-3,17-BETA-DIOL * 17-BETA-ESTRA-1,
3,5(10)-TRIENE-3,17-DIOL * 1,3,5-ESTRATRIENE-3,17-BETA-DIOL *
ESTROVITE * FEMESTRAL * FEMOGEN * GYNERGON * GYNESTREL * GYNOESTRYL *
LAMDIOL * MACRODIOL * MACROL * MICRODIOL * NORDICOL * NSC-9895 *
OESTERGEN * OESTRADIOL * ALPHA-OESTRADIOL * BETA-OESTRADIOL * 3,17-
BETA-OESTRADIOL * CIS-OESTRADIOL * D-OESTRADIOL * D-3,17-BETA-
OESTRADIOL * OESTRADIOL R * OESTRADIOL-17-BETA * OESTRA-1,3,5(10)-
TRIENE-3,17-BETA-DIOL * 17-BETA-OESTRA-1,3,5(10)-TRIENE-3,17-DIOL *
OESTROGLANDOL * OESTROGYNAL * 17-BETA-OH-ESTRADIOL * 17-BETA-OH-
OESTRADIOL * OVAHORMON * OVASTEROL * OVASTEVOLO * OVOCICLINA *
OVOCYCLIN * OVOCYCLINE * OVOCYCLIN * PRIMOPOL * PROFOLIOL * PROGYNON *
PROGYNON-DH * SYNDIOL * THEELIN, DIHYDRO- *
SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -
LABEL PRECAUTIONARY STATEMENTS
HARMFUL
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
LIMITED EVIDENCE OF CARCINOGENIC EFFECT.
POSSIBLE CARCINOGEN.
POSSIBLE MUTAGEN.
POSSIBLE TERATOGEN.
TARGET ORGAN(S):
FEMALE REPRODUCTIVE SYSTEM
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.
IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND
SHOES. CALL A PHYSICIAN.
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.
SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -
EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
WATER SPRAY.

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- - - - -
EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
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- - - - -
NIOSH/MSHA-APPROVED RESPIRATOR.
USE ONLY IN A CHEMICAL FUME HOOD.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
CHEMICAL SAFETY GOGGLES.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -
APPEARANCE AND ODOR
SOLID.
PHYSICAL PROPERTIES
MELTING POINT: 215 TO 217'C
SOLUBILITY: CHCL3 SOLUBLE

SECTION 10. - - - - - -STABILITY AND REACTIVITY - - - - -
STABILITY
STABLE.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -
ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY
INVESTIGATED.
CHRONIC EFFECTS
POSSIBLE CARCINOGEN.
POSSIBLE TERATOGEN.
OVEREXPOSURE MAY CAUSE REPRODUCTIVE DISORDER(S) BASED ON TESTS WITH
LABORATORY ANIMALS.
POSSIBLE MUTAGEN.
RTECS DATA AND SYNONYMS SUPPLIED ARE FOR A CLOSELY RELATED COMPOUND.
RTECS #: KG2975000
ESTRADIOL
TARGET ORGAN DATA
LUNGS, THORAX OR RESPIRATION (BRONCHOGENIC CARCINOMA)
KIDNEY, URETER, BLADDER (BLADDER TUMORS)
KIDNEY, URETER, BLADDER (KIDNEY TUMORS)
ENDOCRINE (CHANGE IN LH)
ENDOCRINE (TUMORS)
SKIN AND APPENDAGES (TUMORS)
PATERNAL EFFECTS (SPERMATOGENESIS)
PATERNAL EFFECTS (TESTES, EPIDIDYMIS, SPERM DUCT)
PATERNAL EFFECTS (PROSTATE, SEMINAL VESICLE, COWPER'S, ACCESSORY GLANDS)
PATERNAL EFFECTS (OTHER EFFECTS ON MALE)
MATERNAL EFFECTS (OVARIES, FALLOPIAN TUBES)
MATERNAL EFFECTS (UTERUS, CERVIX, VAGINA)
MATERNAL EFFECTS (MENSTRUAL CYLCE CHANGES OR DISORDERS)
MATERNAL EFFECTS (PARTURITION)
MATERNAL EFFECTS (OTHER EFFECTS ON FEMALE)
EFFECTS ON FERTILITY (FEMALE FERTILITY INDEX)
EFFECTS ON FERTILITY (MALE FERTILITY INDEX)
EFFECTS ON FERTILITY (PRE-IMPLANTATION MORTALITY)
EFFECTS ON FERTILITY (POST-IMPLANTATION MORTALITY)
EFFECTS ON FERTILITY (LITTER SIZE)
EFFECTS ON FERTILITY (ABORTION)
EFFECTS ON FERTILITY (OTHER MEASURES OF FERTILITY)
EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)
EFFECTS ON EMBRYO OR FETUS (FETAL DEATH)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (ENDOCRINE SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (UROGENITAL SYSTEM)
TUMORIGENIC EFFECTS (UTERINE TUMORS)
EFFECTS ON NEWBORN (DELAYED EFFECTS)
TUMORIGENIC (CARCINOGENIC BY RTECS CRITERIA)

TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)
TUMORIGENIC (TUMORS AT SITE OF APPLICATION)
TUMORIGENIC (APPEARANCE OF TUMOR TYPES MAY NOT BE SPONTANEOUS)
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 - - - - -
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 - - - - -
CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -
EUROPEAN INFORMATION

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

HARMFUL

R 20/21/22

HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

R 40

LIMITED EVIDENCE OF CARCINOGENIC EFFECT.

S 36

WEAR SUITABLE PROTECTIVE CLOTHING.

S 22

DO NOT BREATHE DUST.

RTECS DATA AND SYNONYMS SUPPLIED ARE FOR A CLOSELY RELATED COMPOUND.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

IARC CANCER REVIEW:ANIMAL SUFFICIENT EVIDENCE IMEMDT 21,279,1979

IARC CANCER REVIEW:ANIMAL SUFFICIENT EVIDENCE IMEMDT 6,99,1974

IARC CANCER REVIEW:ANIMAL SUFFICIENT EVIDENCE IMEMDT 72,339,1999

NOHS 1974: HZD 80407; NIS 1; TNF 68; NOS 6; TNE 2770

NOES 1983: HZD 80407; NIS 4; TNF 151; NOS 5; TNE 9083; TFE 8217

EPA GENETOX PROGRAM 1988, POSITIVE: CARCINOGENICITY-MOUSE/RAT; SPERM
MORPHOLOGY-RAT

EPA GENETOX PROGRAM 1988, POSITIVE: SPERM MORPHOLOGY-MOUSE

EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

NTP 9TH REPORT ON CARCINOGENS,2000:REASONABLY ANTICIPATED TO BE HUMAN
CARCINOGEN

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

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
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