

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-313/313-06-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
313-06-4  
**Code:**  
M

**RTECS:**  
KG4600000  
**Code:**  
M

**Name:**  
17-CYCLOPENTANEPROPIONATE ESTRADIOL

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
NOT NEEDED IN NORMAL SERVICE.

**Ventilation:**  
USE LOCAL EXHAUST.

**Protective Gloves:**  
RUBBER.

**Eye Protection:**  
SAFETY GLASSES WITH SIDESHIELDS.

**Other Protective Equipment:**  
Equipment PROVIDE A LOCAL EYE WASH STATION.

**Work Hygienic Practices:**  
5 EXECISE GOOD LABORATORY PRACTICES.WASH HANDS AFTER USE AND BEFORE EATING.

**Supplemental Safety and Health:**  
ESTROGENS HAVE A WEAK ANABOLIC EFFECT AND MAY CAUSE SODIUM AND FLUID RETENTION (BLOATING,EDEMA).ESTROGENS AFFECT CALCIUM DEPOSITION IN BONES AND BLOOD CALCIUM CONCENTRATION.  
NDC 009-0253-02.

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 SUBCUTANEOUS RAT IS >2000MG/KG

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
3 TESTOSTERONE MAY CAUSE SWELLING,MASCULINIZATION IN FEMALES AND INHIBITION PF TESTICULAR FUNCTION IN MALES.ESTRADIOL CAN BE ABSORBED THROUGH THE SKIN OR RESPIRATORY TRACT.FEMALES MAY EXPERIENCE VAGINAL BLEEDING,BREAST CHANGES(TENDERNESS,ENLARGEMENT,SECRETIIONS) ...{(CONT'D IN SIGNS AND SYMPTOMS)

**Explanation Of Carcinogenicity:**  
ESTRADIOL IS LISTED BY IARC AS GROUP 2B(SUFFICIENT EVIDENCE).TESTOSTERONE IS ALSO LISTED BY IARC.

**Signs And Symptoms Of Overexposure:**  
MALES MAY EXPERIENCE BREAST ENLARGEMENT,LOSS OF LIBIDO,TESTICULAR SHRINKING. ADVERSE EFFECTS:DIZZINESS,NAUSEA,VOMITING,ABDOMINAL CRAMPS,ANOREXIA,MIGRAINE HEADACHES,MENTAL DEPRESSION,DIARRHEA,HYPERTENS ION,SKIN HYPERPIGMENTATION(ESP.FACE ANDNIPPLES).OCULAR CURVATURE(CAUSING DISCOMFORT WITH CONTACT LENSES) (SEE SUPPL)

**Medical Cond Aggravated By Exposure:**  
PERSONS WITH HYPERSENSITIVITY TO THE DRUG,LIVER,HEART,KIDNEY,UNDIAGNOSED ABNORMAL GENITAL BLEEDING,EXISTING THROMBOEMBOLYTIC DISEASE,PROSTATIC,MAMMARY OR UTERINE CANCER(OR HISTORY THEREOF),PREGNANCY.

**First Aid:**  
SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:DO NOT INDUCE VOMITING. GET PROMPT QUALIFIED MEDICAL ATTENTION.

**Spill Release Procedures:**  
USE PROPER VENTILATION AND RESPIRATORY EQUIPMENT.SMALL SPILLS CAN BE ABSORBED W/PAPER TOWELS.LARGE SPILLS SHOULD BE VACUUMED OR SCOOPED UP;PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL.AVOID CONTAMIN ATION OF SEWER.CLEAN SPILL AREA WITH DILUTE BLEACH

**Neutralizing Agent:**  
NOT APPLICABLE.

**Waste Disposal Methods:**  
DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM CHILDREN.KEEP AWAY FROM LIGHT.

**Other Precautions:**  
FOLLOW LABEL DIRECTIONS.AVOID BREATHING DUST.AVOID SKIN AND EYE CONTACT. 4

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/K

**Lower Limits:**  
N/K

**Upper Limits:**  
N/K

**Extinguishing Media:**  
WATER,DRY CHEMICAL,CARBON DIOXIDE.

**Fire Fighting Procedures:**  
USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.

**Unusual Fire/Explosion Hazard:**  
FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.

## Physical/Chemical Properties

**HCC:**  
N1

**NRC/State LIC No:**  
N/R

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/K

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/K

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
N/K

**Vapor Density:**  
N/K

**Volatile Org Content %:**

**Spec Gravity:**  
N/K

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/K

**Evaporation Rate & Reference:**  
N/K

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
LIQUID.COLOR AND ODOR NOT REPORTED.

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
UNKNOWN

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
MANUFACTURER STATES NONE.

**Materials To Avoid:**  
MANUFACTURER STATES NONE. 6

**Hazardous Decomposition Products:**  
CARBON DIOXIDE,CARBON MONOXIDE

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/R

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P