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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Inc **Pfizer Pharmaceuticals Group** 235 East 42nd Street New York, New York 10017 1-212-573-2222

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 **Contact E-Mail:** pfizer-MSDS@pfizer.com Pfizer Ltd Ramsgate Road Sandwich, Kent **CT13 9NJ United Kingdom** +00 44 (0)1304 616161

Emergency telephone number: ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Testosterone Cypionate, Estradiol Cypionate Injection

Trade Name: DEPO-TESTADIOL®

Chemical Family: Mixture

Intended Use: Pharmaceutical product used for hormone replacement therapy

2. HAZARDS IDENTIFICATION

Appearance: Clear, oily liquid Signal Word: WARNING

Statement of Hazard: May cause cancer.

May damage fertility or the unborn child

Additional Hazard Information:

Long Term:

Adverse reproductive effects seen in repeat-dose animal studies are consistent with the pharmacologic action of this drug and are expected to be relevant to humans. Occupational studies have shown that males working with estrogen-like compounds have shown clinical signs of hyperestrogenism including enlarged breasts and milk secretion. Loss of libido, breast tenderness, and changes in sex hormone levels have also occurred. Occupational exposure in females has resulted in menstrual irregularities (breakthrough bleeding, menstrual flow

changes, spotting and amenorrhea).

Clinical use has caused effects on reproductive system, including prolonged erection **Known Clinical Effects:**

(priapism), breast development in males (gynecomastia), loss of libido, decreased sperm count, impairment of male fertility, development of male characteristics (masculinization), development of male characteristics in the female fetus, menstrual irregularities, breast pain, changes in cervical erosion and secretion, impairment of female fertility. Clinical use of this drug has caused nausea, vomiting, abdominal cramping, fluid retention, weight changes, liver

cancer, prostate cancer.

EU Classification

EU Indication of danger: Toxic to reproduction: Category 1

Carcinogenic: Category 1

EU Hazard Symbols:



EU Risk Phrases:

PZ01147

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2. HAZARDS IDENTIFICATION

R45 - May cause cancer. R60 - May impair fertility.

R61 - May cause harm to the unborn child.

Note: This document has been prepared in accordance with standards for workplace safety, which

require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your

workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Testosterone Cypionate	58-20-8	200-368-4	Repr.Cat.1;R60-61	5
			Carc.Cat.2;R45	
Chlorobutanol	57-15-8	200-317-6	Xn;R22	*
Estradiol Cypionate	313-06-4	206-237-8	Not Listed	<1

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Cottonseed Oil	8001-29-4	232-280-7	Not Listed	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get

medical attention.

Skin Contact: Remove contaminated clothing and wash exposed area with soap and water. Obtain medical

assistance if irritation or unusual symptoms occur, even if they are delayed.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

Hazardous Combustion Products: Carbon monoxide and carbon dioxide

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

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6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

area thoroughly.

Measures for Environmental

Protections:

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

Additional Consideration for Large

Spills:

Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

General Handling: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly

after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or

other equivalent controls.

Storage Conditions: Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Testosterone Cypionate

Pfizer OEL TWA-8 Hr: 4 µg/m³, Skin

Estradiol Cypionate

Pfizer OEL TWA-8 Hr: 0.2 μg/m³, Skin

Analytical Method: Analytical method available for estradiol. Contact Pfizer Inc for further information.

Engineering Controls: Engineering controls should be used as the primary means to control exposures.

Refer to specific Member State legislation for requirements under Community environmental **Environmental Exposure Controls:**

legislation.

Refer to applicable national standards and regulations in the selection and use of personal **Personal Protective Equipment:**

protective equipment (PPE).

Rubber gloves Hands:

Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is Eyes:

possible.

Skin: Not required for the normal use of this product. Wear protective clothing when working with

large quantities.

Respiratory protection: Not required for the normal use of this product. If the applicable Occupational Exposure Limit

(OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control

exposures to below the OEL.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:Oily liquidColor:ClearMolecular Formula:MixtureMolecular Weight:Mixture

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of various forms of the

active ingredients.

Acute Toxicity: (Species, Route, End Point, Dose)

Testosterone propionate

Rat Oral LD 50 1000 mg/kg Mouse Oral LD 50 1350 mg/kg

Testosterone Cypionate

Mouse Para-periosteal LD 50 > 1000 mg/kg

Estradiol Cypionate

Mouse Subcutaneous LD 50 > 1000 mg/kg

Cottonseed Oil

Rat Oral LD50 > 90 ml/kg

Chlorobutanol

Rat Oral LD50 510 mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

Irritation / Sensitization: (Study Type, Species, Severity)

Chlorobutanol

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Testosterone propionate

5 Day(s) Mouse Oral 1000 mg/kg/day NOAEL None identified

28 Day(s) Monkey Subcutaneous 2.7 mg/kg/day LOAEL Endocrine system

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11. TOXICOLOGICAL INFORMATION

Testosterone Cypionate

5 Day(s) Mouse Oral 200 mg/kg LOAEL Liver

Estradiol

90 Day(s) Rat Oral 0.003 mg/kg/day NOAEL Blood, Female reproductive system, Male reproductive system,

Endocrine system, Liver

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Testosterone propionate

Embryo / Fetal Development Monkey Subcutaneous 1.25 mg/kg/day LOEL Teratogenic

Embryo / Fetal Development Rat Subcutaneous 0.4 mg/kg NOEL Teratogenic

Estradiol

Reproductive & Fertility-Females Rat Oral 0.003 mg/kg/day LOAEL Reproductive toxicity

Embryo / Fetal Development Rat Intramuscular 30 mg/kg/day LOAEL Fetotoxicity

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Testosterone Cypionate

Bacterial Mutagenicity (Ames)

Estradiol Cypionate

Direct DNA Interaction Negative

In Vitro Micronucleus Human Lymphocytes Negative
In Vitro Micronucleus Mouse Lymphoma Negative

Mammalian Cell Mutagenicity Chinese Hamster Ovary (CHO) cells Negative

Estradiol

Sister Chromatid Exchange Human Lymphocytes Positive

Micronucleus Human Positive

Chromosome Aberration Human Negative

In Vivo Direct DNA Damage Hamster Positive

In Vivo Micronucleus Rodent Bone Marrow Negative

Chlorobutanol

In Vitro Bacterial Mutagenicity (Ames) Salmonella Positive

In Vitro Micronucleus Mouse Bone Marrow Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Testosterone propionate

Not specified Rat Subcutaneous 80-100 mg LOEL Tumors, Male reproductive system

Estradiol

2 Year(s) Female Mouse Oral 0.1 mg/kg LOEL Tumors, Mammary gland, Female reproductive system

Carcinogen Status: See below

Testosterone propionate

IARC: Group 2A

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11. TOXICOLOGICAL INFORMATION

OSHA: Present

Testosterone Cypionate

IARC: Group 2A OSHA: Present

Estradiol

IARC: Group 1
NTP: Listed
OSHA: Present

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been investigated. Releases to the environment should be

avoided.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

EU Symbol:

EU Indication of danger: Toxic to reproduction: Category 1

Carcinogenic: Category 1

EU Risk Phrases:

R45 - May cause cancer. R60 - May impair fertility.

R61 - May cause harm to the unborn child.

EU Safety Phrases:

S22 - Do not breathe dust.

S36/37 - Wear suitable protective clothing and gloves. S53 - Avoid exposure - obtain special instructions before use.

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15. REGULATORY INFORMATION

OSHA Label:

WARNING

May cause cancer.

May damage fertility or the unborn child

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



Testosterone Cypionate

California Proposition 65 developmental toxicity, initial date 10/1/91

female reproductive toxicity, initial date 4/1/90 male reproductive toxicity, initial date 4/1/90

U.S. Drug Enforcement Administration: Schedule IIIN Controlled Substance

Australia (AICS):ListedStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List 200-368-4

Chlorobutanol

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Listed

Schedule 2

Schedule 3

200-317-6

Estradiol Cypionate

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS/ELINCS List

206-237-8

Cottonseed Oil

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS/ELINCS List

232-280-7

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R22 - Harmful if swallowed.

R45 - May cause cancer.

R60 - May impair fertility.

R61 - May cause harm to the unborn child.

Data Sources: Pfizer proprietary drug development information. Publicly available toxicity information.

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Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 3 - Composition / Information on Ingredients.

Prepared by:

Toxicology and Hazard Communication
Pfizer Global Environment, Health, and Safety Operations

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End of Safety Data Sheet