Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>See Section 15.</td>
</tr>
</tbody>
</table>

**Common Name/Trade Name**: Testosterone Enanthate

**Catalog Number(s)**: T3945, T3271, T1560

**CAS#** 315-37-7

**RTECS** XA3080000

**TSCA** TSCA 8(b) inventory: No products were found.

**CI#** Not available.

**Manufacturer**
SPECTRUM LABORATORY PRODUCTS INC.
14422 S. SAN PEDRO STREET
GARDENA, CA 90248

**Commercial Name(s)** Not available.

**Synonym**
4-Androsten-17beta-ol-3-one 17 -Enanthate; Testosterone, Heptanoate; Testosterone heptylate; Testosterone oenanthate; Testenate; Androtardyl

**Chemical Name** Testosterone Enanthate

**Chemical Family** Not available.

**Chemical Formula** C26-H40-O3

**Supplier**
SPECTRUM LABORATORY PRODUCTS INC.
14422 S. SAN PEDRO STREET
GARDENA, CA 90248

**Health Hazard**
Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

**Carcinogenic Effects**: Not available.

**Mutagenic Effects**: Not available.

**Teratogenic Effects**: Classified POSSIBLE for human.

**Developmental Toxicity**: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE].

The substance may be toxic to blood, the reproductive system, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
<th>CEIL (mg/m³)</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Testosterone Enanthate</td>
<td>315-37-7</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

**Toxicological Data on Ingredients**

**ORAL (LD50)**
Acute: >1000 mg/kg [Rat]. >3000 mg/kg [Mouse].

Section 3. Hazards Identification

**Potential Acute Health Effects**
Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects**

**CARCINOGENIC EFFECTS**: Not available.

**MUTAGENIC EFFECTS**: Not available.

**TERATOGENIC EFFECTS**: Classified POSSIBLE for human.

**DEVELOPMENTAL TOXICITY**: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE].

The substance may be toxic to blood, the reproductive system, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Continued on Next Page
**Section 4. First Aid Measures**

<table>
<thead>
<tr>
<th>Eye Contact</th>
<th>Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.</td>
</tr>
<tr>
<td>Serious Skin Contact</td>
<td>Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</td>
</tr>
<tr>
<td>Serious Inhalation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.</td>
</tr>
<tr>
<td>Serious Ingestion</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Section 5. Fire and Explosion Data**

<table>
<thead>
<tr>
<th>Flammability of the Product</th>
<th>May be combustible at high temperature.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash Points</td>
<td>CLOSED CUP: Higher than 93.3°C (200°F).</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Products of Combustion</td>
<td>These products are carbon oxides (CO, CO2).</td>
</tr>
<tr>
<td>Explosion Hazards in Presence of Various Substances</td>
<td>Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.</td>
</tr>
<tr>
<td>Fire Fighting Media and Instructions</td>
<td>SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.</td>
</tr>
<tr>
<td>Special Remarks on Fire Hazards</td>
<td>As with most organic solids, fire is possible at elevated temperatures</td>
</tr>
<tr>
<td>Special Remarks on Explosion Hazards</td>
<td>Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.</td>
</tr>
</tbody>
</table>

**Section 6. Accidental Release Measures**

<table>
<thead>
<tr>
<th>Small Spill</th>
<th>Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Spill</td>
<td>Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.</td>
</tr>
</tbody>
</table>
### Section 7. Handling and Storage

**Precautions**
- Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

**Storage**
- Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers. Refrigerate. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

### Section 8. Exposure Controls/Personal Protection

**Engineering Controls**
- Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**
- Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill**
- Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits**
- Not available.

### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical state and appearance</th>
<th>Odor</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid. (Crystalline solid. Powdered solid.)</td>
<td>Characteristic odor of Enanthic acid (Slight.)</td>
<td>White. Off-white.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Molecular Weight</th>
<th>pH (1% soln/water)</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>400.59 g/mole</td>
<td>Not applicable.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

|---------------|----------------------|-----------------|---------------|--------------|------------|---------------|------------------------|----------------------|------------------------|-----------|

### Section 10. Stability and Reactivity Data

**Stability**
- The product is stable.

<table>
<thead>
<tr>
<th>Instability Temperature</th>
<th>Conditions of Instability</th>
<th>Incompatibility with various substances</th>
<th>Corrosivity</th>
</tr>
</thead>
</table>

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*Continued on Next Page*
Section 11. Toxicological Information

**Routes of Entry**
Absorbed through skin. Inhalation. Ingestion.

**Toxicity to Animals**
Acute oral toxicity (LD50): >1000 mg/kg [Rat].

**Chronic Effects on Humans**
TERATOGENIC EFFECTS: Classified POSSIBLE for human.
DEVELOPMENTAL TOXICITY: Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE].
May cause damage to the following organs: blood, the reproductive system, liver.

**Other Toxic Effects on Humans**
Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

**Potential Effects of Overexposure:**
- **Skin:** May cause skin irritation. May be absorbed through skin.
- **Eyes:** Dust may cause eye irritation.
- **Inhalation:** Dust may cause respiratory tract irritation.
- **Ingestion:** May cause gastrointestinal tract irritation with upset stomach or stomach pain, nausea, vomiting, diarrhea. May cause water and salt retention (edema), weight gain, acne and muscular development. Other symptoms may include headache, unusual tiredness, dizziness, trouble sleeping, increased pubic hair growth, change in sex drive. Females may also experience virilizing side effects such as facial hair, deepening of the voice, and menstrual irregularities. Effects of chronic overexposure in women include male-pattern baldness, excessive body hair, prominent musculature, and hypertrophy of the clitoris, decreased breast size, oily skin, impaired fertility. Effects generally slowly subside on discontinuation of exposure, but with prolonged overexposure in women some effects may become irreversible. Overexposure in males may lead to feminizing side effects (breast enlargement and or soreness), and decreased spermatogenesis or impaired fertility due to inhibition of gonadotropin secretion and metabolic conversion of androgens to estrogens. Other symptoms of overexposure in males may include frequent or continuing erections, chills, pain in the scrotum or groin, difficulty urinating, decreased testicle size, and aggressive behavior. May also affect blood (clotting disorders, elevated cholesterol levels, change in red blood cell count), and liver. Effects on the liver may cause yellowing of the skin or eyes (jaundice). Chronic exposure may cause hypersensitization, masculinization in females, heart problems in males, impaired fertility in males and females and cancer.
- **Medical Conditions Aggravated by Exposure:** Hypersensitivity to material, males with breast or prostate cancer, hypercalcemia resulting from osteolysis, pre-existing liver, kidney, or heart problems, and enlarged prostate gland.

**Special Remarks on Toxicity to Animals**
Not available.

**Special Remarks on Chronic Effects on Humans**
May affect genetic material (mutagenic).
May cause adverse reproductive effects and birth defects (teratogenic).
May cause cancer.

**Special Remarks on Other Toxic Effects on Humans**
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation**
The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation**
Not available.

Section 12. Ecological Information

**Ecotoxicity**
Not available.

**BOD5 and COD**
Not available.

**Products of Biodegradation**
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation**
The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation**
Not available.
## Section 13. Disposal Considerations

**Waste Disposal**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 14. Transport Information

### DOT Classification

Not a DOT controlled material (United States).

### Identification

Not applicable.

### Special Provisions for Transport

Not applicable.

### DOT (Pictograms)

![No Pictogram]

## Section 15. Other Regulatory Information and Pictograms

### Federal and State Regulations

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Testosterone Enanthate

California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Testosterone Enanthate

California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Testosterone Enanthate

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Testosterone Enanthate

California Director's list of Hazardous Substances: Testosterone Enanthate

### California Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Testosterone Enanthate

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Testosterone Enanthate

### Other Regulations


EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

### WHMIS (Canada)

Not controlled under WHMIS (Canada).

### DSCL (EEC)

- **R45**: May cause cancer.
- **R63**: Possible risk of harm to the unborn child.

### HMIS (U.S.A.)

- **Health Hazard**: 1
- **Fire Hazard**: 1
- **Reactivity**: 0
- **Personal Protection**: E

### National Fire Protection Association (U.S.A.)

- **Health**: 1
- **Flammability**: 1
- **Reactivity**: 0
- **Specific Hazard**: 0

### WHMIS (Canada) (Pictograms)

![No Pictogram]
<table>
<thead>
<tr>
<th>Protective Equipment</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloves.</td>
<td></td>
</tr>
<tr>
<td>Lab coat.</td>
<td></td>
</tr>
<tr>
<td>Dust respirator.</td>
<td>Be sure to use an approved/certified respirator or equivalent.</td>
</tr>
<tr>
<td>Safety glasses.</td>
<td></td>
</tr>
</tbody>
</table>

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**Section 16. Other Information**

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>T3172</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Special Considerations</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Validated by Sonia Owen on 8/25/2006.  
Verified by Sonia Owen.
Printed 9/14/2006.

CALL (310) 516-8000

**Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.