





# Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	1	Fire Hazard	1	Reactivity	0	
Health Hazard	1							
Fire Hazard	1							
Reactivity	0							
		See Section 15.						

## Section 1. Chemical Product and Company Identification

Page Number: 1

<b>Common Name/ Trade Name</b>	<b>Testosterone</b>	<b>Catalog Number(s).</b>	YY233, TE115, T1006, T1079, T1283, T1630, T1635, T3403
<b>Manufacturer</b>	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	<b>CAS#</b>	58-22-0
<b>Commercial Name(s)</b>	Not available.	<b>RTECS</b>	XA3030000
<b>Synonym</b>	17beta-Hydroxy-androst-4-en-3-one; 17b-hydroxy-4-androstene-3-one Testosterone, micronized, USP; Testosterone, micronized, EP Testosterone, Topical, micronized, USP; Testosterone, oral application	<b>TSCA</b>	TSCA 8(b) inventory: Testosterone
<b>Chemical Name</b>	Testosterone	<b>CI#</b>	Not available.
<b>Chemical Family</b>	Not available.	<b>IN CASE OF EMERGENCY</b> <a href="tel:800-424-9300">CHEMTREC (24hr) 800-424-9300</a>  CALL (310) 516-8000	
<b>Chemical Formula</b>	C19-H28-O2		
<b>Supplier</b>	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

## Section 2. Composition and Information on Ingredients

Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	
1) Testosterone	58-22-0				100

<b>Toxicological Data on Ingredients</b>	<b>Testosterone:</b> ORAL (LD50): Acute: >5000 mg/kg [Mammal].
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## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.
<b>Potential Chronic Health Effects</b>	<b>CARCINOGENIC EFFECTS:</b> Classified 2A (Probable for human.) by IARC. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Classified POSSIBLE for human. <b>DEVELOPMENTAL TOXICITY:</b> Classified Reproductive system/toxin/female, Reproductive system/toxin/male, Development toxin [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**

<b>Eye Contact</b>	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 if irritation occurs.
<b>Skin Contact</b>	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
<b>Serious Skin Contact</b>	Not available.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Serious Inhalation</b>	Not available.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
<b>Serious Ingestion</b>	Not available.

**Section 5. Fire and Explosion Data**

<b>Flammability of the Product</b>	May be combustible at high temperature.
<b>Auto-Ignition Temperature</b>	Not available.
<b>Flash Points</b>	CLOSED CUP: Higher than 93.3°C (200°F).
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Fire Hazards in Presence of Various Substances</b>	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
<b>Explosion Hazards in Presence of Various Substances</b>	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
<b>Special Remarks on Fire Hazards</b>	As with most organic solids, fire is possible at elevated temperatures. When heated to decomposition it emits acrid smoke and irritating fumes.
<b>Special Remarks on Explosion Hazards</b>	Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

**Section 6. Accidental Release Measures**

<b>Small Spill</b>	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.
<b>Large Spill</b>	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.

**Section 7. Handling and Storage**

<b>Precautions</b>	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.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	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.
<b>Personal Protection</b>	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Personal Protection in Case of a Large Spill</b>	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.
<b>Exposure Limits</b>	Not available.

**Section 9. Physical and Chemical Properties**

<b>Physical state and appearance</b>	Solid. (Crystalline powder)	<b>Odor</b>	Odorless.
<b>Molecular Weight</b>	288.41 g/mole	<b>Taste</b>	Not available.
<b>pH (1% soln/water)</b>	Not applicable.	<b>Color</b>	White.
<b>Boiling Point</b>	Not available.		
<b>Melting Point</b>	153°C (307.4°F) - 157 C.		
<b>Critical Temperature</b>	Not available.		
<b>Specific Gravity</b>	Not available.		
<b>Vapor Pressure</b>	Not applicable.		
<b>Vapor Density</b>	Not available.		
<b>Volatility</b>	Not available.		
<b>Odor Threshold</b>	Not available.		
<b>Water/Oil Dist. Coeff.</b>	Not available.		
<b>Ionicity (in Water)</b>	Not available.		
<b>Dispersion Properties</b>	See solubility in water, acetone.		
<b>Solubility</b>	Soluble in acetone. Very slightly soluble in diethyl ether. Insoluble in cold water, hot water. Soluble in dioxane and fixed oils.		

**Section 10. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Instability Temperature</b>	Not available.
<b>Conditions of Instability</b>	Excess heat, incompatible materials
<b>Incompatibility with various substances</b>	Reactive with oxidizing agents

Continued on Next Page

<b>Testosterone</b>		<b>Page Number: 4</b>
<b>Corrosivity</b>	Not available.	
<b>Special Remarks on Reactivity</b>	Easily oxidized. No other information found at this time	
<b>Special Remarks on Corrosivity</b>	Not available.	
<b>Polymerization</b>	Will not occur.	

<b>Section 11. Toxicological Information</b>		
<b>Routes of Entry</b>	Absorbed through skin. Inhalation. Ingestion.	
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): >5000 mg/kg [Mammal].	
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Classified 2A (Probable for human.) by IARC. <b>TERATOGENIC EFFECTS:</b> Classified POSSIBLE for human. <b>DEVELOPMENTAL TOXICITY:</b> Classified Reproductive system/toxin/female, Reproductive system/toxin/male, Development toxin [POSSIBLE]. May cause damage to the following organs: blood, the reproductive system, liver.	
<b>Other Toxic Effects on Humans</b>	Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.	
<b>Special Remarks on Toxicity to Animals</b>	Not available.	
<b>Special Remarks on Chronic Effects on Humans</b>	May cause adverse reproductive effects (maternal and paternal effects on fertility) and birth defects. May cause cancer (tumorigenic). May affect genetic material	
<b>Special Remarks on other Toxic Effects on Humans</b>	Potential Effects of Overexposure: Anabolic steroid 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.	

<b>Section 12. Ecological Information</b>		
<b>Ecotoxicity</b>	Not available.	
<b>BOD5 and COD</b>	Not available.	
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
<b>Toxicity of the Products of Biodegradation</b>	The product itself and its products of degradation are not toxic.	

**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)**



### 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  
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 (Listed as Anabolic Steroid).  
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 (listed as Anabolic Steroid)  
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  
Pennsylvania RTK: Testosterone  
Florida: Testosterone  
Massachusetts RTK: Testosterone  
New Jersey: Testosterone  
California Director's List of Hazardous Substances: Testosterone  
TSCA 8(b) inventory: Testosterone

**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  
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: No products were found.

**Other Regulations**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 200-370-5).  
Canada: Listed on Canadian Domestic Substance List (DSL).  
China: Listed on National Inventory.  
Japan: Not listed on National Inventory (ENCS).  
Korea: Listed on National Inventory (KECI).  
Philippines: Listed on National Inventory (PICCS).  
Australia: Listed on AICS.

**Other Classifications**

**WHMIS (Canada)** Not Available.

**DSCL (EEC)**

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

S36/37- Wear suitable protective clothing and gloves.  
S46- If swallowed, seek medical advice immediately and show this container or label.  
S53- Avoid exposure - obtain special instructions before use.

**HMS (U.S.A.)**

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	E

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

Health



Flammability

Reactivity

Specific hazard

**WHMIS (Canada) (Pictograms)**



**DSCL (Europe) (Pictograms)**



**TDG (Canada) (Pictograms)**



**ADR (Europe) (Pictograms)**



**Protective Equipment**



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Safety glasses.

**Section 16. Other Information**

**MSDS Code**

T3165

**References**

Not available.

**Other Special Considerations**

Not available.

**Validated by Sonia Owen on 10/9/2008.****Verified by Sonia Owen.****Printed 10/10/2008.****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.*