

MATERIAL SAFETY DATA SHEET

TESTOSTERONE

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SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT: Testosterone

SYNONYMS: N/A

MOLECULAR FORMULA: C₁₉H₂₈O₂

MOLECULAR WEIGHT: 288.43

CHEMICAL FAMILY: Androgen

<u>INGREDIENT (CAS #)</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Testosterone (58-22-0)	100	N/A	N/A

SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A

VAPOR PRESSURE: N/A

MELTING POINT: 155₀C

VAPOR DENSITY: N/A

SPECIFIC GRAVITY: N/A
(WATER = 1)

EVAPORATION RATE: N/A
(BUTYL ACETATE = 1)

WATER SOLUBILITY: Practically insol. WATER REACTIVE: No

APPEARANCE AND ODOR: White or slightly creamy white crystals or crystalline powder; odorless.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): N/A

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water spray, dry chemical, carbon dioxide, or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear all protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This material is assumed to be combustible. When heated to decomposition (as under fire conditions) it may emit toxic fumes.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable (X) Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition it may emit toxic fumes.

HAZARDOUS POLYMERIZATION: May Occur () Will Not Occur (X)

SECTION 5 - HEALTH HAZARD DATA

TOXICITY: LD100: Intraperitoneal (rat) = 325 mg/kg

CARCINOGEN LISTED BY:	NTP	Yes ()	No (X)
	IARC	Yes (X)	No ()
	OSHA	Yes (X)	No ()
	Other	Yes (X)*	No ()

* NOTE: There are rare reports of hepatocellular carcinoma in individuals receiving long term androgen therapy in high doses.)

ROUTES OF ENTRY: Inhalation, ingestion, absorption.

HEALTH HAZARDS:

ACUTE: Eye, skin and/or respiratory tract irritation, nausea, vomiting.

CHRONIC: Possible hypersensitization; inhibition of testicular function in males; masculinization, nausea, edema, menstrual irregularities in females; **carcinogen**

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Eye, skin and/or respiratory tract irritation, nausea, vomiting.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Hypersensitivity to testosterone. Carcinoma of prostate or breasts. Known or suspected neoplasia. Pregnant women should avoid exposure.

EMERGENCY FIRST AID PROCEDURES: If serious hypersensitivity reactions develop seek immediate medical attention.

INHALATION: Remove to fresh air. Trained personnel should initiate artificial respiration if victim is not breathing. Seek medical attention immediately.

EYES CONTACT: Flush with water for 15 minutes.

SKIN CONTACT: Wash with soap and water.

INGESTION: Rinse mouth out with water and seek medical attention immediately.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: Approved dust respirator.

PROTECTIVE GLOVES: Rubber or latex.

EYE PROTECTION: Safety glasses or goggles recommended. Avoid wearing contact lenses when working with this or any chemical due to the possibility of increased severity of eye injury.

VENTILATION: Local or mechanical ventilation recommended.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK PRACTICES: Do not eat, drink or smoke near this material. Wash any exposed skin areas after handling. Wash contaminated clothing before reuse.

SECTION 7 - HANDLING AND STORAGE PRECAUTIONS

HANDLING PRECAUTIONS: Avoid contact with eyes, skin or clothing. Avoid breathing dust. Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke near this material.

STORAGE PRECAUTIONS: Store in tight container and avoid exposure to excessive heat or humidity.

OTHER PRECAUTIONS: None.

SECTION 8 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear protective equipment (approved respirator, gloves, goggles) and protect exposed skin. Vacuum or sweep up spillage and place in a tight container for disposal. Ventilate spill area and wash down with soap and water. Wash thoroughly and wash contaminated clothing before reuse.

WASTE DISPOSAL METHOD: Incinerate or landfill according to all local, state, federal, and environmental regulations.

SECTION 9 - DISCLAIMER

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DEFINITIONS OF ABBREVIATIONS USED:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service

IARC: Internal Agency for Research on Cancer

IDLH: Immediately Dangerous to Life or Health level

LD50: Median Lethal Dose

N/A: Not available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value