

Version: 1.0

Revised: 03 Jul 2025

1. Identification

Product Identifier Testosterone Undecanoate

Other means of identification

Internal item number82393-0505CAS number5949-44-0SynonymsNot available

Chemical name 17β-hydroxyandrost-4-en-3-one undecanoate

Relevant use and restrictions: For further manufacturing, process or repacking.

Application of substance: Active pharmaceutical ingredient.

Manufacturer/Supplier information

Company name Pharma Source Direct

Address 8591 Prairie Trail Drive, Ste C-600

Englewood, CO 80112

Website www.pharmasd.com

Emergency phone number Infotrac: 1-800-535-5053

2. Hazard(s) Identification

Physical hazards Not classified

Health hazards Acute toxicity, oral Category 4

Carcinogenicity Category 1B

Reproductive toxicity Category 1

Environmental hazards Not available

OSHA defined hazards Not classified

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. May cause cancer. May damage fertility or the

unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Wash thoroughly after

handling. Wear protective gloves/protective clothing/eye

protection/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse

mouth. If exposed or concerned: Get medical advice/attention.

Storage Store locked up.



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Disposal Dispose of contents/container in accordance with local/regional/

national/international regulations.

Hazards not otherwise classified

(HNOC)

Not classified.

Supplemental information

Pharmacologically active material.

3. Composition/Information on Ingredients

Substance

Chemical name	Common name and synonyms	CAS number	%	
Testosterone Undecanoate	Testosterone undecanoate	5949-44-0	100	

4. First-aid Measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation

develops and persists.

Rinse with water. Get medical attention if irritation develops and Eye contact

persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison

control center immediately.

Most important symptoms/effects,

acute and delayed

Pharmacologically active material. Occupational exposure may cause

physiological effects.

Indication of immediate medical attention and special treatment

needed

General Information

Not available.

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions

must receive immediate medical attention.

5. Fire-fighting Measures

Suitable extinguishing media Water. Foam. Dry chemical or CO2. Use fire-extinguishing media

appropriate for surrounding materials.

Unsuitable extinguishing media None known.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and

Wear suitable protective equipment.

precautions for firefighters



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Fire fighting equipment/instructions

Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

Methods and materials for containment and cleaning up

For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling

Avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Use of a designated area is recommended for handling of potent materials.

Conditions for safe storage, including any incompatibilities

Preserve in tightly closed containers, protected from light. Store at 25°C with excursion permitted from 15°C to 30°C.

8. Exposure Controls & Personal Protection

Occupational exposure limits

Not available.

Exposure limit values

None.

Biological limit values

No biological exposure limits noted for the ingredient(s)

Appropriate engineering controls

Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side shields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection is preferred. Maintain eyewash facilities in the work area.

Skin protection



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Hand protection Wear nitrile or other impervious gloves if skin contact is possible.

When the material is dissolved or suspended in an organic solvent,

wear gloves that provide protection against the solvent.

Other Train employees in proper gowning and degowning practices. Base

the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.

Respiratory protection Where respirators are deemed necessary to reduce or control

occupational exposures, use respiratory protection and have an

effective respirator program in place.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance White to almost white crystalline powder,

Physical stateSolid.FormPowder.

Odor Odorless. Slight odor.

Odor threshold

pH

Not available.

Melting point/freezing point

60 - 63 °C

Initial boiling point and boiling

Not available.

range

Flash point

Evaporation rate

Not available.

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive

limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper Not available.

(%)

Explosive limit - lower (%)

Explosive limit - upper (%)

Vapor pressure

Vapor density

Relative density

Not available.

Not available.

Not available.

Not available.

Solubility(ies)

Solubility (water) Insoluble

Solubility (other) Very soluble in chloroform, freely soluble in benzene, sparingly soluble

Not available.

in ethanol, slightly soluble in vegetable oil.

Partition coefficient (n-

octanol/water):

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.



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Other information

Chemical family Steroid Molecular formula C₃₀H₄₈O₃ 456.71 Molecular weight

10. Stability and Reactivity

The product is stable and non-reactive under normal conditions of use, Reactivity

storage, and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents

Hazardous decomposition

products

Irritating and/or toxic fumes or gases. Emits toxic fumes under fire

conditions.

11. Toxicological Information

Information on likely routes of exposure

Inhalation Knowledge about health hazard is incomplete. Skin contact Knowledge about health hazard is incomplete. Eye contact Knowledge about health hazard is incomplete.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical, and toxicological characteristics Anabolic steroids: Reproductive effects. Gastrointestinal disturbances. Weight gain. Swelling of feet and legs. Behavior, mood, or mental changes. Liver toxicity. Water and sodium retention. Impaired glucose

tolerance. Cancer.

Information on toxicological effects

Acute toxicity

Not available.

Not available.

Skin corrosion/irritation Serious eye damage/eye irritation Knowledge about health hazard is incomplete. Knowledge about health hazard is incomplete.

Germ cell mutagenicity Not available.

Carcinogenicity May cause cancer.

Hepatocellular carcinomas and hepatic neoplasms have been associated rarely with long-term, high-dose anabolic steroid therapy.

Reproductive toxicity May damage fertility or the unborn child.

> Studies in humans have shown that androgens administered during pregnancy cause masculinization of the external genitalia of the female fetus; the degree of masculinization is dose related. In males, absent, low, or reduced sperm or sperm function resulting in possible infertility may occur during high-dose therapy with androgens. In females treated with androgens, the absence of menstruation may result, impairing fertility. Anabolic steroid use during pregnancy may cause premature bone maturation and decreased birthweight in the

fetus.

Specific target organ toxicity -

single exposure

Knowledge about health hazard is incomplete.



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Specific target organ toxicity -

repeated exposure

Knowledge about health hazard is incomplete.

Aspiration hazard Further information Not available.

Not available.

12. Ecological Information

Ecotoxicity The product is not classified as environmentally hazardous. However,

this does not exclude the possibility that large or frequent spills can

have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Mobility in soil Not available.

13. Disposal Considerations

Other adverse effects

Disposal instructions Dispose of contents/container in compliance with local/regional/

national/international regulations.

Local disposal regulationsDispose in accordance with local regulations.

Hazardous waste code Not available.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its

container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site

for recycling or disposal. Since emptied containers may retain product

residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

> Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Administration

Not regulated.

Drug Enforcement Administration

(DEA) (21 CFR 1308.11-15)

Schedule III - 4000

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Testosterone and its esters Listed: April 1, 1988, Cancer

16. Other Information

Disclaimer The information in this SDS has been compiled from sources

> considered dependable, but has not been independently verified. The company cannot guarantee the accuracy of information herein, and the statements contained should not be considered an official expression. The company will not assume liability for any loss, damage, and/or expense resulting from the use and/or misuse of this

product in regards to handling, storage, and/or disposal.

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