

# Safety Data Sheet



Revision: 1.0  
Issued: 16 Dec 2021

## 1. Identification

<b>Product Identifier</b>	Dehydroepiandrosterone (DHEA)
<b>Other means of identification</b>	
<b>Internal item number</b>	82393-0106 82393-0107
<b>CAS number</b>	53-43-0
<b>Chemical name</b>	3-Hydroxyandrost-5-en-17-one
<b>Synonyms</b>	Prasterone

**Relevant use and restrictions:** No further information available.

**Application of substance:** Active pharmaceutical ingredient.

### Manufacturer/Supplier information

<b>Company name</b>	Pharma Source Direct
<b>Address</b>	8591 Prairie Trail Drive, Ste C-600 Englewood, CO 80112
<b>Website</b>	www.pharmasd.com

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

## 2. Hazard(s) Identification

<b>Physical hazards</b>	Not classified	
<b>Health hazards</b>	Reproductive toxicity	Category 1B
<b>Environmental hazards</b>	Not classified	
<b>OSHA defined hazards</b>	Not classified	
<b>Label elements</b>		

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<b>Signal word</b>	Danger
<b>Hazard statement</b>	May damage fertility or the unborn child. May cause harm to breast-fed children.
<b>Precautionary statement</b>	
<b>Prevention</b>	Use personal protective equipment as required.
<b>Response</b>	If exposed or concerned: Get medical advice/attention.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/ international regulations.
<b>Hazards not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	Pharmacologically active material.

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## 3. Composition/Information on Ingredients

### Substance

Chemical name	Common name and synonyms	CAS number	%
Dehydroepiandrosterone	DHEA Prasterone	53-43-0	100

## 4. First-aid Measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
<b>Most important symptoms/effects, acute and delayed</b>	No information available.
<b>Indication of immediate medical attention and special treatment needed</b>	No information available.
<b>General Information</b>	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

<b>Suitable extinguishing media</b>	Water. Foam. Dry chemical or CO <sub>2</sub> . Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	Fire may cause evolution of Carbon Monoxide, Carbon Dioxide (CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> )
<b>Special protective equipment and precautions for firefighters</b>	Wear suitable protective equipment.
<b>Fire fighting equipment/instructions</b>	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.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

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## 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. For personal protection, see section 8 of the SDS.

## 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

As a general rule, 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. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.

### Conditions for safe storage, including any incompatibilities

Preserve in tightly closed containers in a dry and well-ventilated place. This material should be handled and stored per label instructions to ensure product integrity.

## 8. Exposure Controls & Personal Protection

### Exposure limit values

No exposure limits noted for the ingredient(s)

### Biological limit values

No biological exposure limits noted for the ingredient(s)

### Appropriate engineering controls

No open handling. For laboratory operations, use approved ventilation or containment system (biological safety cabinet, ventilated balance enclosure, glovebox). 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

Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

#### Skin protection

##### Hand protection

Consider double gloves. 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.

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<b>Other</b>	Train employees in proper gowning and degowning practices. Wear disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task. 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.
<b>Respiratory protection</b>	Use a powered air-purifying respirator (PAPR) with HEPA filters, disposable outerware and head cover for spill cleanup. Chose respiratory protection appropriate to the task and the level of existing engineering controls.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Pharmacological effects may be seen with occupational exposure. Procedures for any use or quantity should be determined after an appropriate assessment.

## 9. Physical and Chemical Properties

<b>Appearance</b>	Appearance descriptions are general information and not specific to any lot.
<b>Physical state</b>	Solid.
<b>Form</b>	Crystalline powder.
<b>Color</b>	White to off-white.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	294.8 – 303.8 °F (146 - 151 °C)
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0.01 Pa (at 25 °C)
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.159 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Slightly soluble.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.

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<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Chemical family</b>	Steroid
<b>Molecular formula</b>	C19-H28-O2
<b>Molecular weight</b>	288.42 g/mol

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage, and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents, acids.
<b>Hazardous decomposition products</b>	Irritating and/or toxic fumes or gases. Carbon oxides.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Skin contact</b>	May cause skin irritation.
<b>Eye contact</b>	May cause eye irritation.
<b>Ingestion</b>	May cause digestive tract irritation.

### Information on toxicological effects

<b>Acute toxicity</b>	Not known.
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Product	Species	Test Results
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Dehydroepiandrosterone (CAS 53-43-0)

#### Oral

LD50

Rat

> 3300 mg/kg

**Skin corrosion/irritation**

Knowledge about health hazard is incomplete.

**Serious eye damage/eye irritation**

Knowledge about health hazard is incomplete.

**Respiratory or skin sensitization**

**Respiratory sensitization**

Knowledge about health hazard is incomplete.

**Skin sensitization**

Knowledge about health hazard is incomplete.

**Germ cell mutagenicity**

Knowledge about mutagenicity is incomplete.

**Carcinogenicity**

Knowledge about carcinogenicity is incomplete.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity**

May damage fertility or the unborn child. May cause harm to breast-fed children.

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<b>Specific target organ toxicity - single exposure</b>	Knowledge about health hazard is incomplete.
<b>Specific target organ toxicity - repeated exposure</b>	Knowledge about health hazard is incomplete.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Further information</b>	Pharmacologically active material. Occupational exposure to small amounts may cause physiological effects.

## 12. Ecological Information

<b>Ecotoxicity</b>	No data available.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	No data available.

## 13. Disposal Considerations

<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable
<b>General information</b>	It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

## 15. Regulatory Information

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**Safety, Health and environmental regulations/legislation specific for the substance or mixture**

Undetermined.

## 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 regard to handling, storage, and/or disposal.

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**Issued by** Pharma Source Direct – Quality Assurance