SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: DHEA (Prasterone) (Micronized)
PRODUCT CODE: 0733
SUPPLIER: MEDISCA Inc.
Tel.: 1.800.932.1039 | Fax.: 1.855.850.5855
661 Route 3, Unit C, Plattsburgh, NY, 12901
3955 W. Mesa Vista Ave., Unit A-10, Las Vegas, NV, 89118
6641 N. Belt Line Road, Suite 130, Irving, TX, 75063
MEDISCA Pharmaceutique Inc.
Tel.: 1.800.665.6334 | Fax.: 514.338.1693
4509 Rue Dobrin, St. Laurent, QC, H4R 2L8
21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2
MEDISCA Australia PTY LTD
Tel.: 1.300.786.392 | Fax.: 61.2.9700.9047
Unit 7, Heritage Business Park
5-9 Ricketty Street, Mascot, NSW 2020

EMERGENCY PHONE
CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300
NSW Poisons Information Centre: 131 126

USES
Adjuvant; Androgen

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Based on available data, the classification criteria are not met.

PICTOGRAM
Not Applicable

SIGNAL WORD
Reproductive effector, hormone.
May damage fertility or the unborn child.
Causes serious eye irritation.
Causes skin and respiratory irritation

HAZARD STATEMENT(S)
Not Applicable.

AUSTRALIA-ONLY HAZARDS
Not Applicable.

PRECAUTIONARY STATEMENT(S)
Prevention Not applicable
Response Not applicable
Storage Not applicable
Disposal Not applicable

HMIS CLASSIFICATION
Health Hazard 1  Flammability 0  Personal Protection E
Reactivity 0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME: 5-Androsten-3β-OL-17-one
BOTANICAL NAME: Not applicable
SYNONYM: Dehydroepiandrosterone; Dehydroisoandrosterone
CHEMICAL FORMULA: C₁₉H₂₈O₂
**SAFETY DATA SHEET**

**CAS NUMBER**
53-43-0

**ALTERNATE CAS NUMBER**
Not applicable

**MOLECULAR WEIGHT**
288.4282

**COMPOSITION**

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHEA (Prasterone)</td>
<td>53-43-0</td>
<td>100</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

**NOTES**
Prasterone is a naturally occurring adrenal androgen that is a precursor of androgens and oestrogens.

---

**SECTION 4: FIRST-AID MEASURES**

**IN CASE OF EYE CONTACT**
Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

**IN CASE OF SKIN CONTACT**
Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

**IF SWALLOWED**
Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

**IF INHALED**
Not expected to present a significant hazard under anticipated conditions of normal use.

---

**SECTION 5: FIREFIGHTING MEASURES**

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**
Slightly flammable to flammable in presence of open flames and sparks, heat. Non-flammable in presence of shocks.

**FLAMMABLE PROPERTIES**
May be combustible at high temperature

**HAZARDOUS COMBUSTION PRODUCTS**
Under fire conditions, hazardous fumes will be present.

**EXTINGUISHING MEDIA**
Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**METHODS & MATERIAL FOR CONTAINMENT**
On land, sweep or shovel into suitable containers. Minimize generation of dust.

**CLEANUP PROCEDURE**
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

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**SECTION 7: HANDLING AND STORAGE**
SAFETY DATA SHEET

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Store in original container, tightly sealed container, protected from direct sunlight, in a dry and well-ventilated area, away from incompatible materials. Store in accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Preserve in tight, light-resistant containers.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: DHEA (Prasterone)  CAS #: 53-43-0

<table>
<thead>
<tr>
<th></th>
<th>TWA</th>
<th>Ceiling</th>
<th>STEL</th>
<th>REL</th>
<th>IDLH</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ACGIH TLV</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>NIOSH</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
</tr>
<tr>
<td>AIHA WEEL</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Safe Work Australia HSIS</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HSE</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

N/L = Not Listed

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m3

EYES: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. SKIN: Wear appropriate gloves to prevent skin exposure. CLOTHING: Wear appropriate protective clothing to minimize contact with skin. RESPIRATORS: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

PERSONAL PROTECTIVE EQUIPMENT

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Solid

DESCRIPTION White or almost white crystalline powder or colorless crystals.

SOLUBILITY Not available

ODOR Not available

FLAMMABILITY May be combustible at high temperature

ODOR THRESHOLD Not available

PH Not available

MELTING POINT (140 - 151)°C, (284 - 303.8)°F

BOILING POINT 426.7 °C, 800.06 °F

FREEZING POINT Not available

FLASH POINT >93.3 °C, >199.94 °F

SPECIFIC GRAVITY Not available

EVAPORATION RATE Not available

EXPLOSIVE LIMIT Not available
## SECTION 10: STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>REACTIVITY</th>
<th>Not established</th>
</tr>
</thead>
<tbody>
<tr>
<td>STABILITY</td>
<td>Stable under recommended storage conditions</td>
</tr>
<tr>
<td>MATERIALS TO AVOID</td>
<td>Strong oxidants</td>
</tr>
<tr>
<td>HAZARDOUS DECOMPOSITION PRODUCTS</td>
<td>Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur</td>
</tr>
<tr>
<td>HAZARDOUS POLYMERIZATION</td>
<td>Will not occur</td>
</tr>
<tr>
<td>POSSIBILITY OF HAZARDOUS REACTION</td>
<td>Not established</td>
</tr>
<tr>
<td>CONDITIONS TO AVOID</td>
<td>Moisture, sunlight and extreme temperatures</td>
</tr>
</tbody>
</table>

## SECTION 11: TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY**
- Oral: Rat: LD50: (mg/kg): >10000
- Dermal: Rabbit LD50: (mg/kg): Not available
- Inhalation: Rat: LD50: (mg/L/4hr): Not available

**SKIN CORROSION/IRRITATION**
- Due to lack of data the classification is not possible.

**SERIOUS EYE DAMAGE/EYE IRRITATION**
- Due to lack of data the classification is not possible.

**RESPIRATORY OR SKIN SENSITIZATION**
- Due to lack of data the classification is not possible.

**GERM CELL MUTAGENICITY**
- Tumorigen, mutagen, reproductive effector, hormone. Based on available data, the classification criteria are not met.

**CARCINOGENICITY**
- OSHA: PRASTERONE is not listed.
- NTP: PRASTERONE is not listed.
- IARC: PRASTERONE is not evaluated.
- California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**ADDITIONAL CARCINOGENICITY INFORMATION**
- Tumorigen, mutagen, reproductive effector, hormone. Based on available data, the classification criteria are not met.

**REPRODUCTIVE TOXICITY**
- May cause adverse reproductive effects based on animal studies: maternal effects/fertility; paternal effects; fetotoxicity.

**SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE**
- Due to lack of data the classification is not possible.
### SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

Due to lack of data the classification is not possible.

### ASPIRATION HAZARDS

Due to lack of data the classification is not possible.

### SIGNS AND SYMPTOMS OF EXPOSURE

Not expected to present a significant hazard under anticipated conditions of normal use.

### POTENTIAL HEALTH EFFECTS

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May be harmful if inhaled. Causes respiratory tract irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
<tr>
<td>Skin</td>
<td>May be harmful if absorbed through skin. Causes skin irritation</td>
</tr>
<tr>
<td>Eyes</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

### SECTION 12: ECOLOGICAL INFORMATION

#### TOXICITY

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50: 96 Hr: Fish (mg/L)</td>
<td>Not available</td>
</tr>
<tr>
<td>IC50: 72 Hr: Algae (mg/L)</td>
<td>Not available</td>
</tr>
<tr>
<td>EC50: 48 Hr: Daphnia magna (mg/L)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

#### PERSISTENCE AND DEGRADABILITY

- Not available

#### BIOACCUMULATIVE POTENTIAL

- LogPow: 3.23

#### MOBILITY IN SOIL

- Water Solubility: 63.5mg/L (25°C)
- Henry's Law Constant: 6.62E-09 atm·m³/mole (25°C)

#### OTHER ADVERSE EFFECTS

- This product is not intended to be released into the environment

### SECTION 13: DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

### SECTION 14: TRANSPORT INFORMATION

#### UNITED STATES & CANADA

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN PROPER SHIPPING NAME</td>
<td>Not dangerous good</td>
</tr>
<tr>
<td>UN NUMBER</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CLASS</td>
<td>Not applicable</td>
</tr>
<tr>
<td>PACKING GROUP</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

#### AUSTRALIA

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
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<tbody>
<tr>
<td>UN PROPER SHIPPING NAME</td>
<td>Not dangerous good</td>
</tr>
<tr>
<td>UN NUMBER</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CLASS</td>
<td>Not applicable</td>
</tr>
<tr>
<td>PACKING GROUP</td>
<td>Not applicable</td>
</tr>
<tr>
<td>HAZCHEM</td>
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</tbody>
</table>

#### ENVIRONMENTAL HAZARDS

- Not available

#### SPECIAL SHIPPING INFORMATION

- Not applicable
SECTION 15: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name &amp; CAS</th>
<th>CERCLA 40 CFR Part 302.4</th>
<th>SARA (Title III) 40 CFR Part 372.65</th>
<th>EPA 40 CFR Part 355 Appendix A</th>
<th>Appendix B</th>
<th>Pennsylvania</th>
<th>Right-to-know New Jersey</th>
<th>Massachusetts</th>
<th>California Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHEA (Prasterone), 53-43-0</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
</tr>
</tbody>
</table>

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

<table>
<thead>
<tr>
<th>Chemical Name &amp; CAS</th>
<th>Poisons and Therapeutic Goods Regulation</th>
<th>Therapeutic Goods Act</th>
<th>Code of Practices - Illicit Drug Precursors</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHEA (Prasterone), 53-43-0</td>
<td>Listed</td>
<td>Listed as Schedule 4</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

REFERENCES

Available upon request

ABBREVIATIONS AND ACRONYMS

CAS – Chemical Abstract Service; GHS – Global Harmonized System; OSHA PEL – Occupational Safety & Health Administration Permissible Exposure Limits; TWA – Time Weighted Average; HSIS – Hazardous Substances Information System; STEL – Short Term Exposure Limit; AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; LD50 – Lethal Dose, 50%; IARC – International Agency for Research on Cancer; NTP – National Toxicology Program; WHMIS – Workplace Hazardous Materials Information System; SARA – Superfund Amendments and Reauthorization Act; EPA – Environmental Protection Agency; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; HMIS – Hazardous Materials Information System; NIOSH – National Institute for Occupational Safety and Health; MSHA – Mine Safety and Health Administration; ACGIH – American Conference of Governmental Industrial Hygienists; IDHL – Immediately Dangerous to Health or Life; TLV – Threshold Limit Value; HSE – Health and Safety Executive; REL - Recommended Exposure Limit

LAST REVISION

03/2016

SUPERSEDES

03/2015

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.