according to the OSHA Hazard Communication Standard



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### **Trenbolone / Estradiol Formulation**

| Version | Revision Date: | SDS Number: | Date of last issue: 05/16/2024  |
|---------|----------------|-------------|---------------------------------|
| 11.0    | 07/06/2024     | 28298-00029 | Date of first issue: 11/05/2014 |

#### **SECTION 1. IDENTIFICATION**

| Product name<br>Other means of identification |  | Trenbolone / Estradiol Formulation<br>COOPERS REVALOR 400 GROWTH PROMOTANT FOR |  |  |
|---|--|--|--|--|
|   |  | GRASS FED HEIFERS AND STEERS (48945)   |  |  |
|   |  | COOPERS REVALOR FLEX GROWTH PROMOTANT FOR                                      |  |  |
|   |  | NON BREEDING CATTLE (58656)  |  |  |
|   |  | COOPERS REVALOR S STEER GROWTH PROMOTANT                                       |  |  |
|   |  | AND FINISHING IMPLANTS (46111)   |  |  |
|   |  | COOPERS REVALOR-H GROWTH PROMOTANT AND   |  |  |
|   |  | FINISHING IMPLANTS (47248)   |  |  |
|   |  | Coopers Revalor XR Growth Promotant and Finishing                              |  |  |
|   |  | Implants (90903)   |  |  |
| Manufacturer or supplier's details            |  |  |  |  |

| Company name of supplier<br>Address                     |   | Merck & Co., Inc<br>126 E. Lincoln Avenue<br>Rahway, New Jersey U.S.A. 07065 |  |  |  |
|---|---|--|--|--|--|
| Telephone<br>Emergency telephone<br>E-mail address      | : | 908-740-4000<br>1-908-423-6000<br>EHSDATASTEWARD@merck.com                   |  |  |  |
| Recommended use of the chemical and restrictions on use |   |  |  |  |  |

| Recommended use     | : | Veterinary product |
|---------------------|---|--------------------|
| Restrictions on use | : | Not applicable     |

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) Combustible dust

| Compustible dust   |   |   |
|--|---|---|
| Carcinogenicity  | : | Category 1A   |
| Reproductive toxicity  | : | Category 1A   |
| Specific target organ toxicity<br>- repeated exposure        | : | Category 1 (Liver, Bone, Blood, Endocrine system)           |
| Specific target organ toxicity<br>- repeated exposure (Oral) | : | Category 1 (Endocrine system, Blood)                        |
| GHS label elements<br>Hazard pictograms                      | : |   |
| Signal Word  | : | Danger  |
| Hazard Statements  | : | If small particles are generated during further processing, |

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|--------------------------|--|---|--|--|--|
|                          |  | tions in air.<br>H350 May cau<br>H360FD May c<br>H372 Causes (<br>system) throug<br>H372 Causes ( | er means, may form combustible dust concentra-<br>se cancer.<br>damage fertility. May damage the unborn child.<br>damage to organs (Liver, Bone, Blood, Endocrine<br>h prolonged or repeated exposure.<br>damage to organs (Endocrine system, Blood)<br>ged or repeated exposure if swallowed.   |  |  |
| Precautionary Statements |  | P202 Do not h<br>and understoo<br>P260 Do not b<br>P264 Wash sk<br>P270 Do not e<br>P280 Wear pro | <ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P260 Do not breathe dust.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P280 Wear protective gloves, protective clothing, eye protection and face protection.</li> </ul> |  |  |
|                          |  | <b>Response:</b><br>P308 + P313 I   | F exposed or concerned: Get medical attention.   |  |  |
|                          |  | <b>Storage:</b><br>P405 Store loc   | ked up.  |  |  |
|                          |  | <b>Disposal:</b><br>P501 Dispose<br>disposal plant.   | of contents and container to an approved waste   |  |  |
|                          | h <b>azards</b><br>ontact with the eyes ca | n lead to mechanica   | al irritation.   |  |  |

Contact with dust can cause mechanical irritation or drying of the skin.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name                       | CAS-No.    | Concentration (% w/w) |
|-------------------------------------|------------|-----------------------|
| 17β-hydroxyestra-4,9,11-trien-3-one | 10161-34-9 | >= 58.8686 - <= 74.07 |
| 17-acetate                          |            |                       |
| Estradiol                           | 50-28-2    | >= 6.9027 - <= 12.5   |
| Magnesium stearate                  | 557-04-0   | >= 1.4717 - <= 1.85   |

### **SECTION 4. FIRST AID MEASURES**

| General advice | : | n the case of accident or if you feel unwell, seek medical dvice immediately. |  |
|----------------|---|---|--|
|                |   | When symptoms persist or in all cases of doubt seek medical advice.           |  |
| If inhaled     | : | If inhaled, remove to fresh air.<br>Get medical attention.                    |  |





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|-------------------------|--|---|--|--|--|--|
| In case of skin contact |  | of water.<br>Remove con<br>Get medical<br>Wash clothin                              | In case of contact, immediately flush skin with soap and plenty<br>of water.<br>Remove contaminated clothing and shoes.<br>Get medical attention.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse. |  |  |  |
| In case of eye contact  |  | : If in eyes, rin   | If in eyes, rinse well with water.<br>Get medical attention if irritation develops and persists.   |  |  |  |
| If swallowed            |  | : If swallowed,<br>Get medical  | If swallowed, DO NOT induce vomiting.<br>Get medical attention.<br>Rinse mouth thoroughly with water.  |  |  |  |
|                         | important symptoms<br>ffects, both acute and<br>ed | : May cause c<br>May damage<br>Causes dam<br>exposure.<br>Contact with<br>the skin. | Contact with dust can cause mechanical irritation or drying of   |  |  |  |
|                         | ction of first-aiders<br>to physician              | : First Aid resp<br>and use the r<br>when the pot                                   | onders should pay attention to self-protection,<br>recommended personal protective equipment<br>ential for exposure exists (see section 8).<br>omatically and supportively.  |  |  |  |

#### **SECTION 5. FIRE-FIGHTING MEASURES**

| Suitable extinguishing media                   | : | Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical  |
|--|---|---|
| Unsuitable extinguishing media                 | : | None known.   |
| Specific hazards during fire fighting          | : | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.<br>Exposure to combustion products may be a hazard to health.                           |
| Hazardous combustion prod-<br>ucts             | : | Carbon oxides<br>Metal oxides   |
| Specific extinguishing meth-<br>ods            | : | Use extinguishing measures that are appropriate to local cir-<br>cumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do<br>so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- : | Use personal protective equipment.                       |
|---------------------------------|--|
| tive equipment and emer-        | Follow safe handling advice (see section 7) and personal |
| gency procedures                | protective equipment recommendations (see section 8).    |

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|---|------------------------------|---|--|---|--|
| Environmental precautions                             |                              | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages<br>cannot be contained.   |   |  |
| Methods and materials for containment and cleaning up |                              | : | container for disp<br>Avoid dispersal of<br>with compressed<br>Dust deposits sho<br>surfaces, as these<br>released into the<br>Local or national<br>disposal of this m<br>employed in the of<br>determine which n<br>Sections 13 and 1 | f dust in the air (i.e., clearing dust surfaces                   |  |

#### SECTION 7. HANDLING AND STORAGE

| Technical measures          | <ul> <li>Static electricity may accumulate and ignite suspended dust<br/>causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding<br/>and bonding, or inert atmospheres.</li> </ul>  |
|-----------------------------|---|
| Local/Total ventilation     | : If sufficient ventilation is unavailable, use with local exhaust ventilation.   |
| Advice on safe handling     | <ul> <li>Do not get on skin or clothing.</li> <li>Do not breathe dust.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Keep container tightly closed.</li> <li>Minimize dust generation and accumulation.</li> <li>Keep container closed when not in use.</li> <li>Keep away from heat and sources of ignition.</li> <li>Take precautionary measures against static discharges.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release to the</li> </ul> |
| Conditions for safe storage | <ul> <li>environment.</li> <li>Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Keep tightly closed.</li> </ul>  |
| Materials to avoid          | <ul> <li>Store in accordance with the particular national regulations.</li> <li>Do not store with the following product types:</li> <li>Strong oxidizing agents</li> <li>Self-reactive substances and mixtures</li> <li>Organic peroxides</li> </ul>  |





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Explosives Gases

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Ingredients with workplace control parameters |  |  |  |  |  |
|---|--|--|--|--|--|
| inert or nuisance dust                        | 50 Million particles per cubic foot<br>Value type (Form of exposure): TWA (total dust)<br>Basis: OSHA Z-3          |  |  |  |  |
|   | 15 mg/m³<br>Value type (Form of exposure): TWA (total dust)<br>Basis: OSHA Z-3                                     |  |  |  |  |
|   | 5 mg/m <sup>3</sup><br>Value type (Form of exposure): TWA (respirable fraction)<br>Basis: OSHA Z-3                 |  |  |  |  |
|   | 15 Million particles per cubic foot<br>Value type (Form of exposure): TWA (respirable fraction)<br>Basis: OSHA Z-3 |  |  |  |  |
| Dust, nuisance dust and par-<br>ticulates     | 10 mg/m³<br>Value type (Form of exposure): PEL (Total dust)<br>Basis: CAL PEL                                      |  |  |  |  |
|   | 5 mg/m³<br>Value type (Form of exposure): PEL (respirable dust fraction)<br>Basis: CAL PEL                         |  |  |  |  |

| Components   | CAS-No.        | Value type<br>(Form of<br>exposure)                | Control parame-<br>ters / Permissible<br>concentration | Basis    |
|--|----------------|--|--|----------|
| 17β-hydroxyestra-4,9,11-trien-<br>3-one 17-acetate | 10161-34-9     | TWA  | 0.2 µg/m3 (OEB<br>5)                                   | Internal |
|  |                | Wipe limit   | 2 µg/100 cm <sup>2</sup>                               | Internal |
| Estradiol  | 50-28-2        | TWA  | 0.05 µg/m3 (OEB<br>5)                                  | Internal |
|  | Further inform | ation: Skin  |  |          |
|  |                | Wipe limit   | 0.5 µg/100 cm <sup>2</sup>                             | Internal |
| Magnesium stearate                                 | 557-04-0       | TWA (Inhal-<br>able particu-<br>late matter)       | 10 mg/m³   | ACGIH    |
|  |                | TWA (Res-<br>pirable par-<br>ticulate mat-<br>ter) | 3 mg/m³  | ACGIH    |

**Engineering measures** 

: Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace.

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|-----------------|------------------------------|---|--|
|                 |                              | design and<br>protect proc<br>No open ha<br>Totally encl<br>are required<br>Operations  | require the use of appropriate containment designed to prevent leakage of compounds into   |
| Perse           | onal protective equip        | nent  |  |
|                 | iratory protection           | maintain va<br>concentratio<br>unknown, a<br>Follow OSH<br>use NIOSH<br>by air purify<br>hazardous<br>supplied res<br>release, exp      | d local exhaust ventilation is recommended to<br>por exposures below recommended limits. Where<br>ons are above recommended limits or are<br>ppropriate respiratory protection should be worn.<br>IA respirator regulations (29 CFR 1910.134) and<br>(MSHA approved respirators. Protection provided<br>ing respirators against exposure to any<br>chemical is limited. Use a positive pressure air<br>spirator if there is any potential for uncontrolled<br>posure levels are unknown, or any other<br>are where air purifying respirators may not provide<br>rotection. |
| M               | aterial                      | : Chemical-re   | esistant gloves  |
|                 | emarks<br>protection         | : Wear safety<br>If the work of<br>mists or aer<br>Wear a face  | puble gloving.<br>y glasses with side shields or goggles.<br>environment or activity involves dusty conditions,<br>osols, wear the appropriate goggles.<br>eshield or other full face protection if there is a<br>y direct contact to the face with dusts, mists, or   |
| Skin a          | and body protection          | : Work unifor<br>Additional b<br>task being p<br>disposable   | m or laboratory coat.<br>ody garments should be used based upon the<br>performed (e.g., sleevelets, apron, gauntlets,<br>suits) to avoid exposed skin surfaces.<br>riate degowning techniques to remove potentially<br>ed clothing.  |
| Hygie           | ene measures                 | : If exposure<br>eye flushing<br>working pla<br>When using<br>Wash conta<br>The effectiv<br>engineering<br>appropriate<br>industrial hy | to chemical is likely during typical use, provide<br>systems and safety showers close to the   |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

according to the OSHA Hazard Communication Standard



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|-----------------|--|---|------------------------------------|---|
|                 |  |   |                                    |   |
| Col             | or   | : | yellow                             |   |
| Odd             | or   | : | No data available                  |   |
| Odd             | or Threshold                                   | : | No data available                  |   |
| pН              |  | : | No data available                  |   |
| Mel             | ting point/freezing point                      | : | No data available                  |   |
| Initi<br>rang   | al boiling point and boiling<br>ge             | : | No data available                  |   |
| Flas            | sh point                                       | : | Not applicable                     |   |
| Eva             | poration rate                                  | : | No data available                  | ,   |
| Flar            | nmability (solid, gas)                         | : | May form explosi handling or other | ve dust-air mixture during processing, means.                     |
| Flar            | mmability (liquids)                            | : | No data available                  |   |
|                 | per explosion limit / Upper<br>nmability limit | : | No data available                  |   |
|                 | ver explosion limit / Lower<br>nmability limit | : | No data available                  |   |
| Vap             | oor pressure                                   | : | No data available                  |   |
| Rela            | ative vapor density                            | : | No data available                  |   |
| Rela            | ative density                                  | : | No data available                  | ,   |
| Der             | nsity  | : | No data available                  | ,   |
|                 | ubility(ies)<br>Water solubility               | : | No data available                  |   |
|                 | tition coefficient: n-                         | : | No data available                  |   |
|                 | anol/water<br>oignition temperature            | : | No data available                  |   |
| Dec             | composition temperature                        | : | No data available                  | 1   |
|                 | cosity<br>Viscosity, kinematic                 | : | No data available                  |   |
| Exp             | losive properties                              | : | Not explosive                      |   |
| Oxi             | dizing properties                              | : | The substance of                   | mixture is not classified as oxidizing.                           |

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|--|---|---|--|---|---|
| Mole   | ecular w  | eight   | :  | No data availabl  | 9   |
|  | Particle characteristics<br>Particle size   |   | :  | No data availabl  | 9   |
| ECTIO  | N 10. S1  |   | EAC  | TIVITY  |   |
| Che  | -   | ability<br>f hazardous reac-  | :  | Stable under nor<br>May form explos<br>handling or othe   | ive dust-air mixture during processing,                           |
| Conditions to avoid<br>Incompatible materials<br>Hazardous decomposition                   |   | :   | <ul> <li>Heat, flames and sparks.<br/>Avoid dust formation.</li> <li>Oxidizing agents</li> <li>No hazardous decomposition products are known.</li> </ul> |   |   |
| ECTIOI   | ormatior  | OXICOLOGICAL I  |  |   |   |
| ECTIOI<br>Info<br>Inha<br>Skin<br>Inge   | N 11. TC  | n on likely routes<br>t   |  |   |   |
| ECTION<br>Info<br>Inha<br>Skin<br>Inge<br>Eye<br>Acu                                       | N 11. TC<br>ormation<br>alation<br>o contact<br>estion<br>contact<br>ute toxic  | n on likely routes  | of   | exposure  |   |
| ECTION<br>Info<br>Inha<br>Skin<br>Inge<br>Eye<br>Acu<br>Not                                | N 11. TC<br>ormation<br>alation<br>o contact<br>estion<br>contact<br>ute toxic  | n on likely routes<br>t   | of   | exposure  |   |
| ECTION<br>Info<br>Inha<br>Skin<br>Inge<br>Eye<br>Acu<br>Not                                | N 11. TO<br>prmation<br>alation<br>contact<br>estion<br>contact<br>ite toxic<br>classifie   | <b>n on likely routes</b><br>t<br><b>:ity</b><br>ed based on availa   | of   | exposure<br>information.  | mate: > 5,000 mg/kg<br>on method                                  |
| ECTION<br>Info<br>Inha<br>Skin<br>Inge<br>Eye<br>Acu<br>Not<br><u>Proo</u><br>Acu          | N 11. TC<br>ormation<br>alation<br>contact<br>estion<br>contact<br>ite toxic<br>classifie<br>duct:  | n on likely routes<br>t<br><b>ity</b><br>ad based on availa<br>oxicity  | of   | exposure<br>information.<br>Acute toxicity esti   |   |
| ECTION<br>Info<br>Inha<br>Skin<br>Inge<br>Eye<br>Acu<br>Not<br><u>Proo</u><br>Acu          | N 11. TO<br>ormation<br>alation<br>o contact<br>estion<br>contact<br>ite toxic<br>classifie<br>duct:<br>te oral to  | n on likely routes<br>t<br><b>ity</b><br>ad based on availa<br>oxicity  | of of of of of of of other   | exposure<br>information.<br>Acute toxicity esti<br>Method: Calculati  |   |
| ECTIOI<br>Info<br>Inha<br>Skin<br>Inge<br>Eye<br>Acu<br>Not<br><u>Proo</u><br>Acut         | N 11. TO<br>ormation<br>alation<br>o contact<br>estion<br>contact<br>ite toxic<br>classifie<br>duct:<br>te oral to  | n on likely routes<br>t<br><b>Fity</b><br>ed based on availa<br>pxicity<br>t <u>s:</u><br>tyestra-4,9,11-trie           | of o   | exposure<br>information.<br>Acute toxicity esti<br>Method: Calculati  | on method   |
| ECTIOI<br>Info<br>Inha<br>Skin<br>Inge<br>Eye<br>Acu<br>Not<br><u>Proo</u><br>Acut         | N 11. TO<br>ormation<br>alation<br>a contact<br>estion<br>contact<br>te toxic<br>classifie<br><u>duct:</u><br>te oral to<br><u>nponen</u><br>-hydrox      | n on likely routes<br>t<br><b>Fity</b><br>ed based on availa<br>pxicity<br>t <u>s:</u><br>tyestra-4,9,11-trie           | of o   | exposure<br>information.<br>Acute toxicity esti<br>Method: Calculati  | on method<br>00 mg/kg   |
| ECTIOI<br>Info<br>Inha<br>Skin<br>Inge<br>Eye<br>Acu<br>Not<br><u>Proo</u><br>Acut         | N 11. TO<br>ormation<br>alation<br>a contact<br>estion<br>contact<br>te toxic<br>classifie<br><u>duct:</u><br>te oral to<br><u>nponen</u><br>-hydrox      | n on likely routes<br>t<br><b>Fity</b><br>ed based on availa<br>pxicity<br>t <u>s:</u><br>tyestra-4,9,11-trie           | of o   | exposure<br>information.<br>Acute toxicity esti<br>Method: Calculati<br>-one 17-acetate:<br>LD50 (Rat): > 5,0 | on method<br>00 mg/kg   |
| ECTION<br>Info<br>Inha<br>Skin<br>Inge<br>Eye<br>Acu<br>Not<br><u>Proo</u><br>Acut<br>Δcut | N 11. TO<br>rmation<br>alation<br>contact<br>estion<br>contact<br>ite toxic<br>classifie<br><u>duct:</u><br>te oral to<br>nponen<br>-hydrox<br>te oral to | n on likely routes<br>t<br><b>ity</b><br>ad based on availa<br>oxicity<br>t <u>s:</u><br>tyestra-4,9,11-trie<br>oxicity | of (<br>ble<br>:<br>:<br>:   | exposure<br>information.<br>Acute toxicity esti<br>Method: Calculati<br>-one 17-acetate:<br>LD50 (Rat): > 5,0 | on method<br>00 mg/kg<br>700 mg/kg                                |

### Magnesium stearate:

| Acute oral toxicity | : | LD50 (Rat): > 2,000 mg/kg       |
|---------------------|---|---------------------------------|
|                     |   | Method: OECD Test Guideline 423 |

according to the OSHA Hazard Communication Standard



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|--|---|--------|---|---|
|  |   |        | icity   | e substance or mixture has no acute oral tox-<br>I on data from similar materials |
| Acute  | e dermal toxicity   | :      | LD50 (Rabbit): ><br>Remarks: Based  | 2,000 mg/kg<br>I on data from similar materials                                   |
| Skin   | corrosion/irritation  |        |   |   |
| Not c  | lassified based on ava  | ilable | information.  |   |
| Com  | ponents:  |        |   |   |
| Magn   | nesium stearate:  |        |   |   |
| Speci  |   | :      | Rabbit  |   |
| Resu   | lt  | :      | No skin irritation  |   |
| Rema   | arks  | :      | Based on data f   | rom similar materials   |
| Not c  | <b>us eye damage/eye</b> i<br>lassified based on ava<br><b>ponents:</b>   |        |   |   |
|  |   |        |   |   |
| Estra<br>Resu  |   |        | No eye irritation   |   |
| Speci<br>Resu<br>Rema  | lt  | :      | Rabbit<br>No eye irritation<br>Based on data f  | rom similar materials   |
| Resp   | iratory or skin sensi   | izatio | 'n  |   |
| -  | sensitization   |        |   |   |
|  | lassified based on ava  |        | information   |   |
|  |   | llable | iniornation.  |   |
|  |   | llable | iniormation.  |   |
| Resp   | iratory sensitization<br>lassified based on ava   |        |   |   |
| Resp<br>Not cl   | iratory sensitization<br>lassified based on ava   |        |   |   |
| Resp<br>Not cl<br><u>Com</u>   | iratory sensitization<br>lassified based on ava<br>ponents:   |        |   |   |
| Resp<br>Not cl<br><u>Com</u><br>Estra  | iratory sensitization<br>lassified based on ava<br>ponents:<br>diol:  |        | information.  |   |
| Resp<br>Not cl<br><u>Com</u><br>Estra<br>Route<br>Speci                            | iratory sensitization<br>lassified based on ava<br>ponents:<br>adiol:<br>es of exposure<br>ies  |        | information.<br>Skin contact<br>Guinea pig  |   |
| Resp<br>Not cl<br><u>Com</u><br>Estra<br>Route<br>Speci<br>Asses                   | iratory sensitization<br>lassified based on ava<br>ponents:<br>adiol:<br>es of exposure<br>ies<br>ssment  |        | information.<br>Skin contact<br>Guinea pig<br>Does not cause  | skin sensitization.   |
| Resp<br>Not cl<br><u>Com</u><br>Estra<br>Route<br>Speci                            | iratory sensitization<br>lassified based on ava<br>ponents:<br>adiol:<br>es of exposure<br>ies<br>ssment  |        | information.<br>Skin contact<br>Guinea pig  | skin sensitization.   |
| Resp<br>Not cl<br>Com<br>Estra<br>Route<br>Speci<br>Asses<br>Resu                  | iratory sensitization<br>lassified based on ava<br>ponents:<br>adiol:<br>es of exposure<br>ies<br>ssment  |        | information.<br>Skin contact<br>Guinea pig<br>Does not cause  | skin sensitization.   |
| Resp<br>Not cl<br>Com<br>Estra<br>Route<br>Speci<br>Asses<br>Resu<br>Magn          | <b>iratory sensitization</b><br>lassified based on ava<br><b>ponents:</b><br><b>idiol:</b><br>es of exposure<br>ies<br>ssment<br>lt<br><b>nesium stearate:</b><br>Type                          |        | information.<br>Skin contact<br>Guinea pig<br>Does not cause<br>negative<br>Maximization Te                 |   |
| Resp<br>Not cl<br>Com<br>Estra<br>Route<br>Speci<br>Asses<br>Resu<br>Test<br>Route | <b>iratory sensitization</b><br>lassified based on ava<br><b>ponents:</b><br><b>idiol:</b><br>es of exposure<br>ies<br>ssment<br>lt<br><b>nesium stearate:</b><br>Type<br>es of exposure        |        | information.<br>Skin contact<br>Guinea pig<br>Does not cause<br>negative<br>Maximization Te<br>Skin contact |   |
| Resp<br>Not cl<br>Com<br>Estra<br>Route<br>Speci<br>Asses<br>Resu<br>Magn          | <b>iratory sensitization</b><br>lassified based on ava<br><b>ponents:</b><br><b>idiol:</b><br>es of exposure<br>ies<br>ssment<br>lt<br><b>nesium stearate:</b><br>Type<br>es of exposure<br>ies |        | information.<br>Skin contact<br>Guinea pig<br>Does not cause<br>negative<br>Maximization Te                 | st  |

according to the OSHA Hazard Communication Standard



# **Trenbolone / Estradiol Formulation**

| ersion<br>.0 | Revision Date:<br>07/06/2024                           | SDS Number:<br>28298-00029                                      | Date of last issue: 05/16/2024<br>Date of first issue: 11/05/2014                                |
|--------------|--|---|--|
| Rema         | rks  | : Based on da   | ta from similar materials  |
| Not cl       | cell mutagenicity<br>assified based on ava<br>conents: | ailable information.  |  |
| 17β-h        | ydroxyestra-4,9,11-                                    | trien-3-one 17-aceta  | ate:   |
| Genot        | toxicity in vitro                                      |   | acterial reverse mutation assay (AMES)<br>Salmonella typhimurium<br>tive                         |
|              |  |   | licronucleus test<br>Chinese hamster fibroblasts<br>tive   |
| Genot        | toxicity in vivo                                       | : Test Type: M<br>Species: Mo<br>Result: nega                   |  |
|              |  | Test Type: N<br>Species: Rat<br>Result: nega                    |  |
|              | cell mutagenicity -<br>ssment                          | : Weight of ev cell mutagen                                     | idence does not support classification as a germ   |
| II<br>Estra  | diol:  |   |  |
| Genot        | toxicity in vitro                                      | thesis in mar   | NA damage and repair, unscheduled DNA syn-<br>nmalian cells (in vitro)<br>mammalian cells<br>ive |
|              |  |   | chromosome aberration test in vitro<br>mammalian cells<br>ive                                    |
|              |  |   | chromosomal aberration<br>mammalian cells<br>ive   |
| Genot        | toxicity in vivo                                       | : Test Type: C<br>Species: Rat<br>Cell type: Bo<br>Result: nega | ne marrow  |
|              |  | Test Type: C<br>Species: Mo<br>Cell type: Bo<br>Result: nega    | ne marrow  |

Magnesium stearate:

according to the OSHA Hazard Communication Standard



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|-----------------|------------------------------|--|---|
| Geno            | toxicity in vitro            | Result: nega                                   | n vitro mammalian cell gene mutation test<br>tive<br>ased on data from similar materials                    |
|                 |                              | Method: OE<br>Result: nega                     | Chromosome aberration test in vitro<br>CD Test Guideline 473<br>tive<br>ased on data from similar materials |
|                 |                              | Result: nega                                   | acterial reverse mutation assay (AMES)<br>tive<br>ased on data from similar materials                       |
|                 | nogenicity<br>cause cancer.  |  |   |
|                 | ponents:                     |  |   |
| 17β-ł           | nydroxyestra-4,9,11-t        | rien-3-one 17-acet                             | ate:  |
| Spec            | ies                          | : Mouse, male                                  |   |
|                 | cation Route                 | : Oral   |   |
| Resu<br>Targe   | et Organs                    | : positive<br>: Liver                          |   |
| Spec            |                              | : Rat, male ar                                 | d female  |
| Applie<br>Resu  | cation Route                 | : Oral   |   |
|                 | et Organs                    | : positive<br>: Pancreas                       |   |
| Carci<br>ment   | nogenicity - Assess-         | : Limited evide                                | ence of carcinogenicity in animal studies   |
| Estra           | diol:                        |  |   |
| Spec            |                              | : Mouse  |   |
|                 | cation Route<br>sure time    | : Ingestion<br>: 24 Months                     |   |
| LOAE            |                              | : 100 µg/kg                                    |   |
| Resu            |                              | : positive                                     |   |
| Targe           | et Organs                    | : female repro                                 | ductive organs  |
| Spec            |                              | : Rat  |   |
| Appli           | cation Route<br>sure time    | : Subcutaneo<br>: 13 weeks                     | JS  |
| LOAE            |                              | : 20 mg/kg bo                                  | dv weight   |
| Resu            | lt                           | : positive                                     |   |
| Targe           | et Organs                    | : Endocrine sy                                 | vstem   |
| Carci<br>ment   | nogenicity - Assess-         | : Positive evid                                | ence from human epidemiological studies   |
| IARC            | 5                            |  | esent at levels greater than or equal to 0.1% is or confirmed human carcinogen by IARC.                     |
| OSH             | •                            | ent of this product p<br>list of regulated car | present at levels greater than or equal to 0.1% is cinogens.  |





| Revision Date:<br>07/06/2024                  |  |  | Date of last issue: 05/16/2024<br>Date of first issue: 11/05/2014   |
|---|--|--|---|
| Estradiol                                     |  | -  | 50-28-2   |
| oductive toxicity<br>amage fertility. May dar | nag  | e the unborn child.  |   |
| onents:                                       |  |  |   |
| ydroxyestra-4,9,11-trie<br>s on fertility     | en-3<br>:  | Test Type: Two-g<br>Species: Rat<br>Application Route  | : Oral<br>).18 mg/kg body weight  |
| s on fetal development                        | :  | Species: Rat<br>Application Route<br>Developmental To  | o-fetal development<br>: oral (feed)<br>oxicity: LOAEL: 20 mg/kg body weight<br>ions were observed.   |
| ductive toxicity - As-<br>nent                | :  | fertility, based on  | f adverse effects on sexual function and<br>animal experiments., Some evidence of<br>n development, based on animal   |
| diol  |  |  |   |
| s on fertility                                | :  | Species: Rat<br>Application Route  | 0.5 mg/kg body weight   |
|   |  | Species: Rat<br>Duration of Single   | ).69 mg/kg body weight  |
|   |  | Test Type: Two-g<br>Species: Mouse<br>Application Route<br>Fertility: LOAEL: 0<br>Result: Effects on   | : Oral<br>).1 mg/kg body weight   |
| s on fetal development                        | :  | Species: Mouse, f<br>Application Route<br>Teratogenicity: LC<br>Symptoms: Malfor   |   |
|   | 07/06/2024<br>Known to be h<br>Estradiol<br>(Estrogens, S<br>oductive toxicity<br>amage fertility. May dan<br><u>conents:</u><br>ydroxyestra-4,9,11-tries<br>s on fertility<br>s on fetal development<br>ductive toxicity - As-<br>nent<br>diol:<br>s on fertility | 07/06/2024       28         Known to be hum       Estradiol         (Estrogens, Sterd         oductive toxicity         amage fertility. May damage         onents:         ydroxyestra-4,9,11-trien-3         s on fertility         s on fetal development         ent         ductive toxicity - As-         hent | 07/06/2024       28298-00029         Known to be human carcinogen<br>Estradiol<br>(Estrogens, Steroidal)         oductive toxicity<br>amage fertility. May damage the unborn child.         amage fertility. May damage the unborn child.         ydroxyestra-4,9,11-trien-3-one 17-acetate:         s on fertility       : Test Type: Two-g<br>Species: Rat<br>Application Route<br>Fertility: LOAEL: (<br>Result: Postimpla         s on fetal development       : Test Type: Embry<br>Species: Rat<br>Application Route<br>Developmental To<br>Result: Malformat         ductive toxicity - As-<br>tent       : Some evidence of<br>fertility, based on<br>adverse effects on<br>experiments.         diol:       :         s on fertility       : Test Type: One-g<br>Species: Rat<br>Application Route<br>Fertility: LOAEL: (<br>Result: Effects on<br>Test Type: One-g<br>Species: Rat<br>Duration of Single<br>Fertility: LOAEL: (<br>Result: Effects on<br>Test Type: Two-g<br>Species: Rat<br>Duration of Single<br>Fertility: LOAEL: (<br>Result: Effects on<br>s on fetal development         s on fetal development       : Test Type: Two-g<br>Species: Mouse<br>Application Route<br>Fertility: LOAEL: (<br>Result: Effects on<br>Test Type: Two-g<br>Species: Mouse, A<br>Application Route<br>Fertility: LOAEL: (<br>Result: Effects on<br>s on fetal development |

according to the OSHA Hazard Communication Standard



### **Trenbolone / Estradiol Formulation**

| Version<br>11.0 | Revision Date:<br>07/06/2024   |   | OS Number:<br>298-00029  | Date of last issue: 05/16/2024<br>Date of first issue: 11/05/2014  |
|-----------------|--------------------------------|---|--|--|
|                 |                                |   | Species: Rat<br>Application Route<br>Teratogenicity: LC<br>Symptoms: Redu  | DAEL: 2.5 μg/kg body weight<br>ced body weight<br>Embryotoxic effects and adverse effects on   |
|                 |                                |   | Species: Rat<br>Application Route<br>Developmental To<br>Symptoms: Early<br>number of viable<br>Result: Embryoto | vo-fetal development<br>e: Subcutaneous<br>oxicity: LOAEL: 0.2 mg/kg body weight<br>Resorptions / resorption rate., Reduced<br>fetuses., Reduced body weight<br>xic effects and adverse effects on the<br>tected only at high maternally toxic doses |
| Repro<br>sessm  | ductive toxicity - As-<br>ient | : | May damage ferti   | lity. May damage the unborn child.   |
| Magn            | esium stearate:                |   |  |  |
| Effects         | s on fertility                 | : | reproduction/deve<br>Species: Rat<br>Application Route<br>Method: OECD T<br>Result: negative                     | ined repeated dose toxicity study with the<br>elopmental toxicity screening test<br>e: Ingestion<br>est Guideline 422<br>on data from similar materials  |
| Effects         | s on fetal development         | : | Species: Rat<br>Application Route<br>Result: negative  | vo-fetal development<br>: Ingestion<br>on data from similar materials  |

#### STOT-single exposure

Not classified based on available information.

#### STOT-repeated exposure

Causes damage to organs (Liver, Bone, Blood, Endocrine system) through prolonged or repeated exposure.

Causes damage to organs (Endocrine system, Blood) through prolonged or repeated exposure if swallowed.

#### Components:

### 17β-hydroxyestra-4,9,11-trien-3-one 17-acetate:

| Routes of exposure | : Ingestion   |  |
|--------------------|---|--|
| Target Organs      | : Endocrine system, Blood                               |  |
| Assessment         | : Causes damage to organs through prolonged or repeated |  |
|                    | exposure.   |  |

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|--------------------------------|--------------------------------|---|--|
|                                | diol:<br>et Organs<br>ssment   |   | Blood, Endocrine system<br>ge to organs through prolonged or repeated          |
| -                              | ated dose toxicity<br>ponents: |   |  |
| Speci<br>NOAE<br>LOAE<br>Expos | ΞL                             | : Pig<br>: 0.004 mg/kg<br>: 0.08 mg/kg<br>: 14 Weeks                                      | <b>te:</b><br>Liver, Uterus (including cervix)                                 |
| Expo                           | ΞL                             | : Rat<br>: 0.04 mg/kg<br>: 3.6 mg/kg<br>: Oral<br>: 23 Weeks<br>: Blood                   |  |
| Expo                           | ΞL                             | : Monkey, fema<br>: 0.01 mg/kg<br>: 0.04 mg/kg<br>: Oral<br>: 122 Days<br>: female reprod |  |
| Expo                           | ΞL                             | : Monkey, male<br>: 0.002 mg/kg<br>: 0.04 mg/kg<br>: Oral<br>: 30 Days<br>: male reproduc |  |
| Expo                           | ΞL                             | : Rat<br>: 0.05 mg/kg<br>: 0.1 mg/kg<br>: Oral<br>: 3 Months<br>: male reproduc           | ctive organs, Ovary, Uterus (including cervix)                                 |
| Expo                           | es                             |   | g<br>nd, Ovary, Uterus (including cervix), Liver, Bone,<br>stem, Blood, Testis |

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# **Trenbolone / Estradiol Formulation**

| Version<br>11.0           | Revision Date:<br>07/06/2024                                      | SDS Numb<br>28298-000           |  |
|---------------------------|---|---------------------------------|--|
| Magn                      | esium stearate:   |                                 |  |
| NOAE<br>Applic<br>Expos   | Species<br>NOAEL<br>Application Route<br>Exposure time<br>Remarks |                                 | ng/kg<br>on<br>s<br>on data from similar materials   |
| Not cl                    | ation toxicity<br>assified based on avai<br>rience with human ex  |                                 | ion.   |
| Com                       | oonents:  |                                 |  |
| 17β-h                     | ydroxyestra-4,9,11-tr   | ien-3-one 17                    | acetate:   |
| Inges                     | tion  | : Sympto<br>in libido           | ms: male reproductive effects, gynecomastia, changes   |
| Estra                     | diol:   |                                 |  |
| Inhala<br>Skin o<br>Inges | contact   | : Sympto<br>: Sympto<br>ness, V | oms: tingling, Nose bleeding<br>oms: Skin irritation, Redness, pruritis<br>oms: Headache, Gastrointestinal disturbance, Dizzi-<br>omiting, Diarrhea, water retention, liver function<br>, changes in libido, breast tenderness, menstrual irreg- |

#### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

#### Components:

### 17β-hydroxyestra-4,9,11-trien-3-one 17-acetate:

| Toxicity to fish (Chronic tox-<br>icity)            | : | NOEC (Pimephales promelas (fathead minnow)): 0.000035<br>mg/l<br>Exposure time: 21 d<br>Method: OECD Test Guideline 229<br>Remarks: Based on data from similar materials |
|---|---|--|
| Estradiol:  |   |  |
| Toxicity to fish                                    | : | LC50 (Oryzias latipes (Japanese medaka)): 3.9 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 2.7 mg/l<br>Exposure time: 48 h   |
| Toxicity to algae/aquatic<br>plants                 | : | NOEC (Pseudokirchneriella subcapitata (green algae)): 1.7<br>mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201  |
|   |   | EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.7 mg/l   |

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|-----------------|---|---|--|---|
|                 |   |   | Exposure time: 72<br>Method: OECD To   |   |
| Toxic<br>icity) | ity to fish (Chronic tox-                     | : | NOEC (Oryzias la<br>Exposure time: 16<br>Method: OECD Te                     |   |
| aquat           | tic invertebrates (Chron-                     |   | NOEC (Daphnia r<br>Exposure time: 21   | nagna (Water flea)): 0.2 mg/l<br>I d  |
| ic tox<br>Toxic | icity)<br>ity to microorganisms               | : | EC50: > 100 mg/l<br>Exposure time: 3<br>Test Type: Respir<br>Method: OECD Te | ation inhibition  |
|                 |   |   | NOEC: 100 mg/l<br>Exposure time: 3<br>Test Type: Respir<br>Method: OECD To   | ation inhibition  |
| Magr            | esium stearate:                               |   |  |   |
|                 | ity to fish                                   | : | Exposure time: 48<br>Method: DIN 384   |   |
|                 | ity to daphnia and other<br>tic invertebrates | : | Exposure time: 47<br>Test substance: V<br>Method: Directive                  | Vater Accommodated Fraction<br>67/548/EEC, Annex V, C.2.<br>on data from similar materials      |
| Toxic<br>plants | ity to algae/aquatic<br>S                     | : | mg/l<br>Exposure time: 72<br>Test substance: V<br>Method: OECD To            | Vater Accommodated Fraction<br>est Guideline 201<br>on data from similar materials              |
|                 |   |   | mg/l<br>Exposure time: 72<br>Test substance: V<br>Method: OECD To            | Vater Accommodated Fraction   |
| Toxic           | ity to microorganisms                         | : | Exposure time: 16<br>Test substance: V                                       | nas putida): > 100 mg/l<br>5 h<br>Vater Accommodated Fraction<br>on data from similar materials |

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### **Trenbolone / Estradiol Formulation**

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|--------------------|---------------------------------------|---------|--|---|
| Persis             | stence and degrada                    | bility  |  |   |
| Comp               | onents:                               |         |  |   |
| Estrac             | diol:                                 |         |  |   |
| Biodeg             | gradability                           | :       | Result: rapidly<br>Biodegradation<br>Exposure time | n: 84 %   |
| Magne              | esium stearate:                       |         |  |   |
| Biodeg             | gradability                           | :       | Result: Not bio<br>Remarks: Bas                    | odegradable<br>ed on data from similar materials                  |
| Bioace             | cumulative potentia                   | al      |  |   |
| Comp               | onents:                               |         |  |   |
| 17β-hy             | ydroxyestra-4,9,11-                   | trien-3 | one 17-acetat                                      | e:  |
| Partitic<br>octano | on coefficient: n-<br>ol/water        | :       | log Pow: 3.77                                      |   |
| Estrac             |                                       |         |  |   |
| Partitic<br>octanc | on coefficient: n-<br>bl/water        | :       | log Pow: 4.01                                      |   |
| -                  | esium stearate:                       |         |  |   |
| Partitic<br>octanc | on coefficient: n-<br>bl/water        | :       | log Pow: > 4                                       |   |
| Mobili             | ty in soil                            |         |  |   |
| Comp               | onents:                               |         |  |   |
| Estrac             | liol:                                 |         |  |   |
|                    | ution among environ<br>I compartments | - :     | log Koc: 3.81                                      |   |
| Other              | adverse effects                       |         |  |   |
| No dat             | ta available                          |         |  |   |

| Disposal methods       |   |   |
|------------------------|---|---|
| Waste from residues    | : | Dispose of in accordance with local regulations.          |
|                        |   | Do not dispose of waste into sewer.                       |
| Contaminated packaging | : | Empty containers should be taken to an approved waste     |
|                        |   | handling site for recycling or disposal.                  |
|                        |   | If not otherwise specified: Dispose of as unused product. |

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### UNRTDG

according to the OSHA Hazard Communication Standard



## **Trenbolone / Estradiol Formulation**

| Version<br>11.0                   | Revision Date:<br>07/06/2024                               |  | sue: 05/16/2024<br>sue: 11/05/2014 |
|-----------------------------------|--|--|------------------------------------|
| UN number<br>Proper shipping name |  | UN 3077<br>ENVIRONMENTALLY HAZARDO<br>N.O.S.                                   |                                    |
| Label                             | ng group   | (Estradiol, 17β-hydroxyestra-4,9,<br>9<br>III<br>9<br>yes                      | 11-trien-3-one 17-acetate)         |
| <b>IATA</b> -<br>UN/IE<br>Prope   |  | UN 3077<br>Environmentally hazardous subst<br>(Estradiol, 17β-hydroxyestra-4,9 |                                    |
| Label                             | ng group<br>s<br>ng instruction (cargo                     | 9<br>III<br>Miscellaneous<br>956   |                                    |
| Packi<br>ger ai                   | ng instruction (passen-<br>rcraft)<br>onmentally hazardous | 956<br>yes   |                                    |
| <b>IMDG</b><br>UN nu              | <b>-Code</b><br>umber<br>er shipping name                  | ,<br>UN 3077<br>ENVIRONMENTALLY HAZARDO<br>N.O.S.                              |                                    |
| Label<br>EmS                      | ng group<br>s  | (Estradiol, 17β-hydroxyestra-4,9,<br>9<br>III<br>9<br>F-A, S-F<br>yes          | 11-trien-3-one 17-acetate)         |

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

Not applicable for product as supplied.

#### **Domestic regulation**

| 49 CFR               |   |   |
|----------------------|---|---|
| UN/ID/NA number      | : | UN 3077   |
| Proper shipping name | : | Environmentally hazardous substance, solid, n.o.s.<br>(Estradiol, 17β-hydroxyestra-4,9,11-trien-3-one 17-acetate)   |
| Class                | : | 9   |
| Packing group        | : | III   |
| Labels               | : | CLASS 9   |
| ERG Code             | : | 171   |
| Marine pollutant     | : | yes(Estradiol, 17β-hydroxyestra-4,9,11-trien-3-one 17-<br>acetate)  |
| Remarks              | : | Above applies only to containers over 119 gallons or 450 liters.  |
|                      |   | Shipment by ground under DOT is non-regulated; however it<br>may be shipped per the applicable hazard classification to<br>facilitate multi-modal transport involving ICAO (IATA) or IMO. |

according to the OSHA Hazard Communication Standard



### Trenbolone / Estradiol Formulation

| Version | Revision Date: | SDS Number: | Date of last issue: 05/16/2024  |
|---------|----------------|-------------|---------------------------------|
| 11.0    | 07/06/2024     | 28298-00029 | Date of first issue: 11/05/2014 |

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### SECTION 15. REGULATORY INFORMATION

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

| SARA 311/312 Hazards | : | Combustible dust<br>Carcinogenicity<br>Reproductive toxicity<br>Specific target organ toxicity (single or repeated exposure)  |
|----------------------|---|---|
| SARA 313             | : | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |

#### **US State Regulations**

#### Pennsylvania Right To Know

Entrodial

| 17β-hydroxyestra-4,9,11-trien-3-one 17-acetate | 10161-34-9 |
|--|------------|
| Cholesterol                                    | 57-88-5    |
| Estradiol                                      | 50-28-2    |
| Polyglactin                                    | 26780-50-7 |
| Cellulose, ethyl ether                         | 9004-57-3  |
|  |            |

#### California Prop. 65

WARNING: This product can expose you to chemicals including Estradiol, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

50 20 2

#### California List of Hazardous Substances

| LStraulor                 |                                      | 50-20-2        |
|---------------------------|--------------------------------------|----------------|
| California Permissible Ex | posure Limits for Chemical Conta     | minants        |
| Magnesium stea            | arate                                | 557-04-0       |
| The ingredients of this p | roduct are reported in the following | g inventories: |
| AICS                      | : not determined                     |                |
| DSL                       | : not determined                     |                |
| IECSC                     | : not determined                     |                |





### **Trenbolone / Estradiol Formulation**

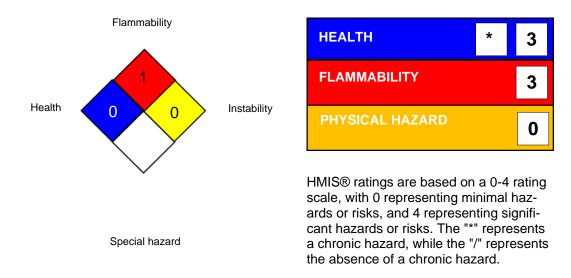
| Version | Revision Date: | SDS Number: | Date of last issue: 05/16/2024  |
|---------|----------------|-------------|---------------------------------|
| 11.0    | 07/06/2024     | 28298-00029 | Date of first issue: 11/05/2014 |

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**



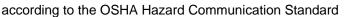
#### HMIS® IV:



#### Full text of other abbreviations

| ACGIH<br>CAL PEL                               |   | USA. ACGIH Threshold Limit Values (TLV)<br>California permissible exposure limits for chemical contami-<br>nants (Title 8, Article 107) |
|--|---|---|
| OSHA Z-3                                       | : | USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts  |
| ACGIH / TWA<br>CAL PEL / PEL<br>OSHA Z-3 / TWA | : | 8-hour, time-weighted average<br>Permissible exposure limit<br>8-hour time weighted average   |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse)





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Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

| Sources of key data used to               | : | Internal technical data, data from raw material SDSs, OECD                             |
|---|---|--|
| compile the Material Safety<br>Data Sheet |   | eChem Portal search results and European Chemicals Agen-<br>cy, http://echa.europa.eu/ |
|   |   |  |

Revision Date : 07/06/2024

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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