

## Section 1 - Identification of the Substance/Mixture and Supplier

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**Chemical nature:** Active ingredients include a mixture of esters of naturally occurring hormones

**Trade Name:** **Synovex® S Steer Growth and Finishing Implants**

**APVMA Code:** 49956

**Product Use:** Growth regulator preparation for steers

**Creation Date:** **July, 2012**

**This version issued:** **1 October 2016** and is valid for 5 years from this date

## Section 2 - Hazards Identification

**Appearance:** Solid

### Classification of the Substance or Mixture

Reproductive Toxicity: Category 1A

Carcinogenicity: Category 1B

### Label Elements

**Signal Word:** Danger

**Hazard Statements:** H360 - May damage fertility or the unborn child  
H350 - May cause cancer

**Precautionary Statements:** P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P308 + P313 - IF exposed or concerned: Get medical attention/advice  
P501 - Dispose of contents/container in accordance with all local and national regulations



**Other Hazards** No data available

**Note:** This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

## Section 3 - Composition/Information on Ingredients

Hazardous Ingredients	CAS No	Conc, %	GHS Classification
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Poisons Information Centre: 13 11 26 from anywhere in Australia

Progesterone	57-83-0	74.1	Carc. 1B (H350) Repr. 1B (H360)
Estradiol Benzoate	50-50-0	7.4	Repr. 1A (H360) Carc.1B (H350)

<b>Ingredients</b>	<b>CAS No</b>	<b>Conc, %</b>	<b>GHS Classification</b>
Inert Ingredients	Not applicable	18.5	Not Listed

**Additional Information:** Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

## Section 4 - First Aid Measures

### Description of First Aid Measures

<b>Eye Contact:</b>	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.
<b>Skin Contact:</b>	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
<b>Inhalation:</b>	Remove to fresh air and keep patient at rest. Seek medical attention immediately.

### Most Important Symptoms and Effects, Both Acute and Delayed

<b>Symptoms and Effects of Exposure:</b>	No data available
<b>Medical Conditions Aggravated by Exposure:</b>	None known

### Indication of the Immediate Medical Attention and Special Treatment Needed

<b>Notes to Physician:</b>	None
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## Section 5 - Fire Fighting Measures

**Extinguishing Media:** Extinguish fires with CO<sub>2</sub>, extinguishing powder, foam, or water.

### Special Hazards Arising from the Substance or Mixture

**Hazardous Combustion Products:** Formation of toxic gases is possible during heating or fire.

**Fire / Explosion Hazards:** Fine particles (such as dust and mists) may fuel fires/explosions.

### Advice for Fire-Fighters

During all firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

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## Section 6 - Accidental Release Measures

### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

### Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

### Methods and Material for Containment and Cleaning Up

#### Measures for Cleaning / Collecting:

Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of dry solids. Clean spill area thoroughly.

#### Additional Consideration for Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

## Section 7 - Handling and Storage

### Precautions for Safe Handling

Use adequate ventilation. Avoid breathing dust, vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Releases to the environment should be avoided.

### conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions:** Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.

**Specific end use(s):** No data available

## Section 8 - Exposure Controls and Personal Protection

### Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

#### Progesterone

Zoetis OEL TWA 8-hr 30 µg/m<sup>3</sup> Skin

#### Estradiol Benzoate

Zoetis OEL TWA 8-hr 0.2 µg/m<sup>3</sup> Skin

### Exposure Controls

#### Engineering Controls:

Engineering controls should be used as the primary means to control exposures.

#### Personal Protective Equipment:

Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

#### Hands:

Wear impervious gloves if skin contact is possible.

#### Eyes:

Safety glasses or goggles

#### Skin:

Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.

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**Respiratory protection:**

If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

**Section 9 - Physical and Chemical Properties:**

<b>Physical State:</b>	Solid	<b>Color:</b>	Yellow
<b>Odor:</b>	Not applicable	<b>Odor Threshold:</b>	No data available
<b>Molecular Formula:</b>	Mixture	<b>Molecular Weight:</b>	Mixture

**Solvent Solubility:** No data available

**Water Solubility:** No data available

**pH:** No data available

**Melting/Freezing Point (°C):** No data available

**Boiling Point (°C):** No data available

**Partition Coefficient: (Method, pH, Endpoint, Value)**

No data available

**Progesterone**

Predicted 7.4 Log D 4.04

**Decomposition Temperature (°C):** No data available

**Evaporation Rate (Gram/s):** No data available

**Vapor Pressure (kPa):** No data available

**Vapor Density (g/ml):** No data available

**Relative Density:** No data available

**Viscosity:** No data available

**Flammability:**

**Autoignition Temperature (Solid) (°C):** No data available

**Flammability (Solids):** No data available

**Flash Point (Liquid) (°C):** No data available

**Upper Explosive Limits (Liquid) (% by Vol.):** No data available

**Lower Explosive Limits (Liquid) (% by Vol.):** No data available

**Section 10 - Stability and Reactivity**

**Reactivity:** No data available

**Chemical Stability:** Stable under normal conditions of use.

**Possibility of Hazardous Reactions**

**Oxidizing Properties:** No data available

**Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions.

**Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

**Hazardous Decomposition Products:** No data available

**Section 11 - Toxicological Information**

**Information on Toxicological Effects**

**General Information:** Toxicological properties of the formulation have not been investigated. The following information is available for the individual ingredients.

**Acute Toxicity: (Species, Route, End Point, Dose)**

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**Progesterone**

Rat Oral LD 50 >5000 mg/kg  
 Rat Sub-tenon injection (eye) LD 50 327mg/kg

**Estradiol Benzoate**

Rat Oral LD50 5000 mg/kg

**Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)****Progesterone**

2 Year(s) Rabbit Intramuscular 13 mg/kg LOEL Female reproductive system  
 74 Week(s) Dog Subcutaneous 0.08-22.5 mg/day (increased dose) LOEL Female reproductive system

**Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))****Progesterone**

Reproductive & Fertility Rabbit No route specified Dose not specified Embryotoxicity  
 Embryo / Fetal Development Rat No route specified Dose not specified Not Teratogenic  
 Embryo / Fetal Development Monkey No route specified Dose not specified Not Teratogenic

**Genetic Toxicity: (Study Type, Cell Type/Organism, Result)****Progesterone**

Bacterial Mutagenicity (Ames) Negative  
*In Vivo* Dominant Lethal Assay Mouse Negative  
*In Vivo* Chromosome Aberration Rat Negative  
*In Vitro* Chromosome Aberration Human Negative  
*In Vitro* Cell Transformation Assay Rat Positive

**Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))****Progesterone**

2 Year(s) Rabbit Intramuscular 13 mg/kg NOEL Not carcinogenic  
 18 Month(s) Mouse Subcutaneous 0.059 mg/day LOEL Malignant tumors, Female reproductive system, Mammary Gland  
 40 Week(s) Rat Subcutaneous 200 mg/kg/day LOEL Malignant tumors, Liver  
 19 Week(s) Female Mouse Subcutaneous 25 mg/kg (5 days/week) LOEL Tumors, Mammary gland

**Carcinogen Status:** See below

**Progesterone**

**IARC:** Group 2B (Possibly Carcinogenic to Humans)  
**NTP:** Reasonably Anticipated To Be A Human Carcinogen  
**OSHA:** Listed

**Estradiol Benzoate**

**IARC:** Group 1 (Carcinogenic to Humans)  
**OSHA:** Listed

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**Section 12 - Ecological Information**

**Environmental Overview:** Environmental properties have not been investigated.

**Toxicity:** No data available

**Persistence and Degradability:** No data available

**Bio-accumulative Potential:** No data available

**Progesterone****SAFETY DATA SHEET**

Predicted 7.4 Log D 4.04

**Mobility in Soil:** No data available

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## Section 13 - Disposal Considerations

**Disposal:** DO NOT dispose of unused implants in any way other than surrender to an approved retailer/wholesaler. Dispose of empty cartridges by wrapping with paper and putting in garbage. Discarded needles should immediately be placed in a designated 'sharps' container.

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## Section 14 - Transport Information

The following refers to all modes of transportation unless specified below.

Not regulated for transport under IATA, ADG or IMDG regulations.

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## Section 15 - Regulatory Information

**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

**Poison Schedule:** Schedule 5

**Progesterone**

**Australia (AICS):** Present

**Estradiol Benzoate**

**Australia (AICS):** Present

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## Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

**Data Sources:** The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

**Acronyms:**

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>SWA</b>	Safe Work Australia, formerly ASCC and NOHSC
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines & Poisons
<b>UN Number</b>	United Nations Number

**This version issued: 1 October 2016** and is valid for 5 years from this date

**Supersedes:** Revision 23 Oct 2014

**Revision History:**

Date of Revision	Reason
23 Oct 2014	Update to Zoetis name and address
1 Oct 2016	Update to GHS

### SAFETY DATA SHEET

Issued by: Zoetis Australia Pty Ltd

Phone: 1800 814 883

Poisons Information Centre: 13 11 26 from anywhere in Australia

Contact Points:

Zoetis	1800 814 883
Police and Fire Brigade:	Dial 000

**If ineffective:**

**Dial Poisons Information Centre  
(13 11 26 from anywhere in Australia)**

THIS SDS SUMMARISES OUR CURRENT AND BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION ABOUT THE PRODUCT DETAILED IN THIS SDS, AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE FOR THE RECOMMENDED USE. EACH USER OF THE PRODUCT MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THEIR OWN WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT ZOETIS.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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**End of Safety Data Sheet**