

Revision date: 29-Jan-2014 Version: 2.1 Page 1 of 8

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Identifier** 

Material Name: Synovex C

Trade Name: Synovex

Synonyms: Progesterone/Estradiol Benzoate

Chemical Family: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Veterinary product

**Details of the Supplier of the Safety Data Sheet** 

Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA)

Rocky Mountain Poison Control Center Phone: 1-866-531-8896

Product Support/Technical Services Phone: 1-800-366-5288

Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem

**Belgium** 

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: VMIPSrecords@zoetis.com

Emergency telephone number:

International CHEMTREC (24 hours): +1-703-527-3887

# 2. HAZARDS IDENTIFICATION

Appearance: Pellets Classification of the Substance or Mixture

**GHS - Classification** 

Reproductive Toxicity: Category 1A Carcinogenicity: Category 1B

**EU Classification:** 

EU Indication of danger: T - Toxic

EU Symbol: T

EU Risk Phrases:

R45 - May cause cancer. R60 - May impair fertility.

**Label Elements** 

Signal Word: Danger

Hazard Statements: H360 - May damage fertility or the unborn child

H350 - May cause cancer

Material Name: Synovex C

Revision date: 29-Jan-2014

Page 2 of 8

Version: 2.1

Precautionary Statements: P280 - Wear protective gloves/protective clothing/eye protection/face protection

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards
Australian Hazard Classification
(NOHSC):

No data available

Hazardous Substance. Non-Dangerous Goods.

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.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	EU	EU Classification	GHS	%
		EINECS/ELINCS		Classification	
		List			
Progesterone	57-83-0	200-350-6	Repr.Cat.2;R60-61	Carc. 1B (H350)	74.1
			Carc.Cat.2;R45	Repr. 1B (H360)	
Estradiol Benzoate	50-50-0	200-043-7	Carc.Cat.1;R45	Repr. 1A (H360)	7.4
			Repr.Cat.1;R60	Carc.1B (H350)	
			Repr.Cat.1;R61		

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Inert Ingredients	Not applicable	Not Listed	Not Listed	Not Listed	18.5

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

safety.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

**Description of First Aid Measures** 

**Eye Contact:** Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Material Name: Synovex C Page 3 of 8
Revision date: 29-Jan-2014 Version: 2.1

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: 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.

**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of

No data available

**Exposure:** 

Medical Conditions

None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

**Hazardous Combustion** 

Formation of toxic gases is possible during heating or fire.

**Products:** 

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

**Advice for Fire-Fighters** 

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

## 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.

## 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Use with 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

ZT00106

Material Name: Synovex C

Revision date: 29-Jan-2014

Page 4 of 8

Version: 2.1

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters** 

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

**Progesterone** 

**Zoetis OEL TWA 8-hr** 30 μg/m³, Skin

**Estradiol Benzoate** 

**Zoetis OEL TWA 8-hr** 0.2 μg/m³, Skin

**Exposure Controls** 

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or aerosols. Keep airborne contamination levels below the exposure limits listed above in this section.

Personal Protective Refer to applicable national standards and regulations in the selection and use of personal

**Equipment:** 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.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Pellets Color: Yellow

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available

Water Solubility: Insoluble

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):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
No data available

ZT00106

Material Name: Synovex C

Revision date: 29-Jan-2014

Page 5 of 8

Version: 2.1

## 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: Keep away from heat and other sources of ignition, including electrostatic discharge. 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

# 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)

#### **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))

ZT00106

Material Name: Synovex C

Revision date: 29-Jan-2014

Page 6 of 8

Version: 2.1

## 11. TOXICOLOGICAL INFORMATION

**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

## 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties have not been investigated. Releases to the environment should be

avoided.

No data available

Toxicity: No data available

Persistence and Degradability: No data available

**Bio-accumulative Potential:** 

**Progesterone** 

Predicted 7.4 Log D 4.04

Mobility in Soil: No data available

## 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

## 14. TRANSPORT INFORMATION

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

Material Name: Synovex C
Revision date: 29-Jan-2014
Page 7 of 8
Version: 2.1

\_\_\_\_\_

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

# 15. REGULATORY INFORMATION

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

Canada - WHMIS: Classifications
WHMIS hazard class:

Class D, Division 2, Subdivision A



#### **Progesterone**

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 carcinogen initial date 1/1/88

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentStandard for the Uniform SchedulingSchedule 4for Drugs and Poisons:Schedule 5EU EINECS/ELINCS List200-350-6

**Estradiol Benzoate** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

200-043-7

**Inert Ingredients** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

# **16. OTHER INFORMATION**

#### Text of R phrases and GHS Classification abbreviations mentioned in Section 3

H350 - May cause cancer

H360 - May damage fertility or the unborn child

Material Name: Synovex C
Revision date: 29-Jan-2014
Page 8 of 8
Version: 2.1

Carcinogenic: Category 1
Carcinogenic: Category 2
Toxic to reproduction: Category 1

Toxic to reproduction: Category 1
Toxic to Reproduction: Category 2

R45 - May cause cancer. R60 - May impair fertility.

R61 - May cause harm to the unborn child.

**Data Sources:** The data contained in this MSDS may have been gathered from confidential internal sources,

raw material suppliers, or from the published literature.

**Reasons for Revision:** Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 2 - Hazard Identification. Updated Section 9 - Physical and Chemical Properties. Updated Section 15 - Regulatory Information. Updated Section 8 - Exposure

Controls / Personal Protection.

Prepared by: Toxicology and Hazard Communication

Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet**