SAFETY DATA SHEETS

This SDS packet was issued with item: 078408684

N/A

SAFETY DATA SHEET



1. Identification

Product identifier	Synovex Plus
Other means of identification	
Synonyms	Synovex with Trenbolone Acetate Growth and Finishing Implants for Steers and Heifers * Synovex * Trenbolone Acetate and Estradiol Benzoate Impant
Recommended use	Veterinary product (Hormone)
Recommended restrictions	Not for human use
Manufacturer/Importer/Supplier/	Distributor information
Company Name (US)	Zoetis Inc.
	10 Sylvan Way
	Parsippany, New Jersey 07054 (USA)
Rocky Mountain Poison & Drug Safety	1-866-531-8896
Product Support/Technical Services	1-888-963-8471
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300
	International CHEMTREC (24 hours): +1-703-527-3887
Company Name (EU)	Zoetis Belgium S.A.
	Rue Laid Burniat 1
	1348 Louvain-la-Neuve
	Belgium
Telephone	+32 10 808080
Emergency telephone number	International CHEMTREC (24 hours): +1-703-527-3887
Contact E-Mail	VMIPSrecords@zoetis.com

2. Hazard(s) identification

Label elements

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1A
	Reproductive toxicity	Category 1A
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Signal word	Danger
Hazard statement	May cause cancer. May damage fertility or the unborn child.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

Occupational studies have shown that males working with estrogen-like compounds have shown clinical signs of hyperestrogenism including enlarged breasts and milk secretion. Loss of libido, breast tenderness, and changes in sex hormone levels have also occurred. Occupational exposure in females has resulted in menstrual irregularities (breakthrough bleeding, menstrual flow changes, spotting and amenorrhea).

3. Composition/information on ingredients

Mixtures

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Polyethylene Glycol 8000 NF		25322-68-3	<20
Magnesium Stearate		557-04-0	<10
Estradiol Benzoate		50-50-0	28 mg per implant
Trenbolone Acetate		10161-34-9	200 mg per implant
Composition comments	In accordance with 29 CFR 1910.1200, the ex withheld as a trade secret.	act percentage compositio	n of this mixture has been
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in if symptoms develop or persist. For breathing		
Skin contact	Wash off with soap and water. Get medical at clothing before reuse.	tention if symptoms occur.	Wash contaminated
Eye contact	Remove contact lenses, if present and easy to 15 minutes and consult a physician.	o do. Rinse thoroughly with	plenty of water for at least
Ingestion	If ingestion of a large amount does occur, call vomiting without advice from poison control ce you feel unwell. Never give anything by mouth	enter. Rinse mouth. Get me	dical advice/attention if
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary redness, or discomfort. Dusts may irritate the reproductive effects. Occupational studies hav compounds have shown clinical signs of hype secretion. Loss of libido, breast tenderness, a occurred. Occupational exposure in females bleeding, menstrual flow changes, spotting an	respiratory tract, skin and e ve shown that males workir restrogenism including enla and changes in sex hormor has resulted in menstrual ir	eyes. May cause ng with estrogen-like arged breasts and milk e levels have also
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea Symptoms may be delayed.	at symptomatically. Keep vi	ctim under observation.
General information	IF exposed or concerned: Get medical advice. of the material(s) involved, and take precautio sheet to the doctor in attendance.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbo carefully to avoid creating airborne dust.	on dioxide (CO2). Apply ex	tinguishing media
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as thi	s will spread the fire.	
Specific hazards arising from the chemical	Combustible. Avoid generating airborne dust. formed.	During fire, gases hazardo	us to health may be
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pr	otective clothing must be w	orn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breather so without risk. Use water spray to cool unoper wear appropriate protective equipment, includ	ened containers. During all	fire fighting activities,
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other in	nvolved materials.
General fire hazards	May form combustible dust concentrations in a fires/explosions.	air. Fine particles (such as	dust and mists) may fuel

6. Accidental release measures

0. Accidental release measures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.	
Methods and materials for containment and cleaning up	Ensure adequate ventilation. Avoid the generation of dusts during clean-up. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains.	
	Large Spills: Stop the flow of material, if this is without risk. Collect spill with an inert, non-combustible absorbent material and transfer to labeled container for disposal. Clean contaminated surface thoroughly. Prevent release to the environment.	
	Small Spills: Wipe up with a damp cloth and place in container for disposal. Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not use in areas without adequate ventilation. Avoid dust formation. Combustible dust clouds may be created where operations produce fine material (dust). Should be handled in closed systems, if possible. Do not breathe dust. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment.	
Conditions for safe storage, including any incompatibilities	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. @ 20 - 25C / 68 - 77F. Keep away from heat and sources of ignition. Avoid dust formation. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials (see Section 10 of the SDS). Use care in handling/storage.	

8. Exposure controls/personal protection

Occupational exposure limits

Zoetis Components	Туре	Value	
Estradiol Benzoate (CAS 50-50-0)	TWA	0.2 µg/m³	
US. ACGIH Threshold Limit	t Values		
Components	Туре	Value	Form
Magnesium Stearate (CAS 557-04-0)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Components Polyethylene Glycol 8000 NF (CAS 25322-68-3)	ntal Exposure Level (WEEL) Guides Type TWA	Value 10 mg/m3	
ological limit values	No biological exposure limits noted f	or the ingredient(s).	
kposure guidelines	OEL Additional Information: Skin - M	ay be absorbed through the sk	in and cause systemic effects.
ontrol banding approach	Trenbolone acetate - Zoetis OEB 5 (control exposure to <1ug/m3)	
ppropriate engineering ontrols	Ensure adequate ventilation, especially in confined areas. Good general ventilation (typically changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate.		ched to conditions. If her engineering controls to posure limits have not been

Individual protection measures, such as personal protective equipment

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Eye/face protection	If contact is likely, safety glasses with side shields are recommended.	
Skin protection Hand protection	Wear appropriate chemical resistant gloves. Impervious gloves.	
Hand protection	wear appropriate chemical resistant gioves. Impervious gioves.	
Other	Wear suitable protective clothing. Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.	
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator must be worn if exposed to dust. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.	
Thermal hazards	Not applicable.	
General hygiene considerations	Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical p	properties
Appearance	Pellets.
Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not applicable.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	

9. Physical and chemical properties

10. Stability and reactivity

Reactivity Chemical stability The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.

Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.		
Conditions to avoid	Contact with incompatible materials. Excessive heat. high humidity. Avoid conditions which create dust. Heat, flames and sparks.		
Incompatible materials	Strong oxidizing agents.		
Hazardous decomposition products	No hazardous decomposition products are known.		
11. Toxicological information			
Information on likely routes of exposure			
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	Prolonged skin contact may cause temporary irritation.		
Trenbolone Acetate	Species: Rabbit		

Severity: Non-irritating

Eye contactDirect contact with eyes may cause temporary irritation.Trenbolone AcetateSpecies: Rabbit
Severity: Minimal

IngestionMay cause discomfort if swallowed. However, ingestion is not likely to be a primary
route of occupational exposure.Symptoms related to the
physical, chemical and
toxicological characteristicsDirect contact with eyes may cause temporary irritation. Exposure may cause temporary
irritation, redness, or discomfort. Dusts may irritate the respiratory tract, skin and eyes.
May cause reproductive effects. Occupational studies have shown that males working

May cause reproductive effects. Occupational studies have shown that males working with estrogen-like compounds have shown clinical signs of hyperestrogenism including enlarged breasts and milk secretion. Loss of libido, breast tenderness, and changes in sex hormone levels have also occurred. Occupational exposure in females has resulted in menstrual irregularities (breakthrough bleeding, menstrual flow changes, spotting and amenorrhea).

Information on toxicological effects

Acute toxicity		
Components	Species	Test Results
Estradiol Benzoate (CAS 50-50-0)		
Acute		
Oral		
LD50	Rat	5000 mg/kg
Magnesium Stearate (CAS 557-04	-0)	
Acute		
Inhalation		
LC50	Rat	> 2000 mg/m3
Oral		
LD50	Rat	> 2000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may ca	use temporary irritation.
Corrosivity Trenbolone Acetate		Species: Rabbit
		Severity: Non-irritating
Serious eye damage/eye irritation	Direct contact with eyes may ca	ause temporary irritation.
Eye Contact Trenbolone Acetate		Species: Rabbit Severity: Minimal
Respiratory or skin sensitizatior	1	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to	cause skin sensitization.

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	May cause cancer.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity	
Not listed.		
	d Substances (29 CFR 1910.10	01-1053)
Not listed.	ogram (NTP) Report on Carcino	adone
Estradiol Benzoate (CAS	• • • •	Known To Be Human Carcinogen.
Reproductive toxicity	May damage fertility or the unborn child. This material causes changes in reproductive hormone levels resulting in inhibition of ovulation. Clinical use of this drug has resulted in the development of male characteristics in females.	
Reproductivity		
Trenbolone Acetate		2 ug/kg Reproductive & Fertility, Fertility Result: NOEL Species: Pig Organ: No route specified
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be h	armful.
12. Ecological information	1	
Ecotoxicity		s environmentally hazardous. However, this does not exclude the spills can have a harmful or damaging effect on the environment.

Avoid release to the environment. Components **Test Results** Species Polyethylene Glycol 8000 NF (CAS 25322-68-3) Aquatic Acute Fish LC50 Atlantic salmon (Salmo salar) > 1000 mg/l, 96 hours No data is available on the degradability of this product. Persistence and degradability No data available. **Bioaccumulative potential** No data available. Mobility in soil No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	None known.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

TOQ

Not regulated as dangerous goods.

ATAI

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

the IBC Code bns 87\57 JO9AAM to II xennA Transport in bulk according to Not applicable.

15. Regulatory information

US federal regulations

Standard, 29 CFR 1910.1200. This product is a "Hazardous Chemical" as defined by the OHA Hazard Communication

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

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OSHA Specifically Regulated Substances (29 CFR 1910.1001.0153)

Not listed.

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SARA 302 Extremely hazardous substance

Not listed.

Not regulated. (pritroqer IRT) E1E AAA2

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Not regulated.

(AWD2) .bəfalugər fou Safe Drinking Water Act

US state regulations

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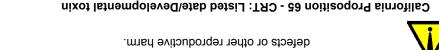
canada

defects or other reproductive harm. WARNING: This product contains a chemical known to the State of California to cause birth

WARNING: WARNING: This product contains a chemical known to the State of California to cause birth **California Proposition 65**

Inventory of Existing Chemical Substances in China (IECSC)

defects or other reproductive harm.



nces List (DSL)	Domestic Substa	ebeneO		
ory of Industrial Chemicals (AICIS)	anavni neilenteuA	silsıtalia		
	Inventory name	Country(s) or region		
		International Inventories		
Listed: h lingA :b∋teiL	(0-03-03 SAD) e	Estradiol Benzoate		
California Proposition 65 - CRT: Listed date/Male reproductive toxin				
Listed: April 1, 1990	(0-02-03 SAD) e	Estradiol Benzoate		
ate/Female reproductive toxin	n 65 - CRT: Listed da	California Proposition		
0eet ,t linqA :b∋tsiJ	(0-09-09 SAD) e	Estradiol Benzoate		
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Non-Domestic Substances List (NDSL)

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Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	01-05-2015
Revision date	07-28-2022
Version #	05
List of abbreviations	LC50: Lethal Concentration 50%. LD50: Lethal Dose 50%. NOEL: No observed effect level. TWA: Time Weighted Average.
Disclaimer	Zoetis Inc. believes that the information contained in this 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. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	Product and Company Identification: Synonyms Identification: Recommended restrictions Composition / Information on Ingredients: Disclosure Overrides First-aid measures: Eye contact First-aid measures: Most important symptoms/effects, acute and delayed Fire-fighting measures: General fire hazards Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Conditions for safe storage, including any incompatibilities Toxicological information: Symptoms related to the physical, chemical and toxicological characteristics Other information, including date of preparation or last revision: List of abbreviations