SAFETY DATA SHEETS

This SDS packet was issued with item:

078705253

N/A

COMPONENT

((vVetLife)

FOR STEERS AND HEIFERS fed in confinement for slaughter

trenbolone acetate 200 mg and estradiol USP 20 mg with 29 mg tylosin tartrate as a local antibacterial



20 dose CARTRIDGE

For Use In Animals Only

Each CARTRIDGE BELT holds 20 doses of COMPONENT® TE-200 with Tylan Implants. Each dose of 11 pellets consists of 10 pellets containing a total of 200 mg of trenbolone acetate and 20 mg estradiol plus 1 pellet containing 29 mg tylosin tartrate as a local antibacterial. COMPONENT® TE-200 Implants are recommended for use in steers and heifers fed in confinement for slaughter for INCREASED RATE OF WEIGHT GAIN AND IMPROVED FEED EFFICIENCY.

INDICATIONS FOR USE: This product contains trenbolone acetate and estradiol for increased rate of weight gain and improved feed efficiency in a slowrelease delivery system. Do not use in veal calves. Effectiveness and animal safety in veal calves have not been established.

NOTE: COMPONENT® TE-200 is not better for increased average daily gain or improved feed efficiency than COMPONENT® TE-H (140 mg trenbolone acetate / 14 mg estradiol) in heifers fed in confinement for slaughter. Studies have demonstrated that administration of COMPONENT® TE-200 can result in decreased marbling scores when compared to non-implanted steers and heifers.

DOSAGE: Administer 1 implant per animal according to the following instructions.

GENERAL INSTRUCTIONS: Study the instructions which should be followed carefully at all times, avoiding short cuts. Skin infection can be avoided by properly preparing implant site and implanter. During fly season use fly repellent on implant site. One designated team member should always do the implanting. Cleanliness of hands and instruments is important at all times.

WARNING

Not to be used in animals intended for subsequent breeding, or in dairy animals. Implant one dose — 11 pellets (entire contents of one cartridge cell) - in the ear subcutaneously. Any other site of implantation is in violation of Federal Law. DO NOT attempt to salvage implantation site for animal feed or human food.

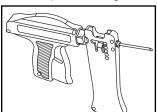
A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

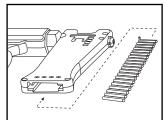
RESTRICTED DRUG — USE ONLY AS DIRECTED (CALIFORNIA) — FOR USE IN ANIMALS ONLY — NOT FOR HUMAN USE — KEEP OUT OF REACH OF CHILDREN

IMPLANTING INSTRUCTIONS:

Loading the Implanter

Load the implanter following the instructions supplied with each implanter.





Restrain the Animal

Speed of implantation as well as safety of handlers is best achieved by restraining animal in a squeeze chute using head restraint. When implanting horned cattle, better control is obtained with additional use of nose tongs.

Prepare the Implant Site

Scrub the back side of the ear (implant site) with a piece of clean absorbent cotton which has been soaked with topical germicidal solution. Follow manufacturer's directions on germicide for correct strength and preparation of solution.

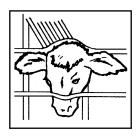
Avoid getting disinfectant in animal's eyes.

Where to Implant

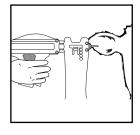
The full contents of one cartridge cell should be implanted beneath the skin on the back side of the middle one-third of the ear illustrated in the drawing. The implant must not be closer to the head than the edge of the auricular cartilage ring farthest from the head. The location for insertion of the needle is a point toward the tip of the ear at least a needle length away from the intended deposition site. Avoid injuring the large arteries, veins and cartilage of the ear.



With one hand firmly grasp the ear. With the other hand insert needle point through the skin and ease forward on a lateral plane until the entire length of the needle is under the skin.







Implant the Pellets

After inserting the needle fully in the correct implant position, squeeze the trigger fully as the needle is withdrawn from the ear. This properly deposits the implant in the needle track. This procedure should prevent breakage or crushing of pellets if otherwise forced into contact with tough fibrous-tissue underlying the skin. The length and total contact area of a single dose are designed to permit absorption of the hormones after implantation to stimulate good weight gain. Broken or crushed pellets may interfere with rates of gain.

Clean the Needle

Clean the implanter needle with alcohol or a properly diluted germicidal solution prior to implanting the next animal.

Storage Conditions

Store in a refrigerator (2°-8°C; 36°-46°F) and protect from sunlight. Use before the expiration date printed on the foil pouch.

ANADA 200-346, Approved by FDA

Manufactured by a non-sterilizing process.

*U.S. Patent No. 4,531,938 COMPONENT TE-200 with Tylan is covered by U.S. Patent No. 5,874,098

COMPONENT is a registered trademark of Ivy Animal Health, Inc. Tylan is a registered trademark of Eli Lilly and Company. Manufactured for VetLife by Ivy Laboratories • Overland Park, KS 66214, USA VetLife and Ivy Laboratories are divisions of Ivy Animal Health, Inc.



SAFETY DATA SHEET

1. Identification

Product identifier Component TE-H, TE-IH, TE-100, and TE-200 Implants with Tylan

Other means of identification

Item Code AH0342, AH0513, AH0515, AH0511

Synonyms Component TE-H Implant with Tylan * Component TE-IH Implant with Tylan * Component TE-100

Implant with Tylan * Component TE-200 Implant with Tylan

Recommended use Veterinary Pharmaceutical

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name Elanco Animal Health

2500 Innovation Way Greenfield, IN 46140

US

Phone: 1-877-Elanco1 (1-877-352-6261)

Email: lilly_msds@lilly.com

Emergency Telephone Elanco Product Technical Support / Human or Animal Exposure Reporting:

Numbers: 1-888-545-5973

Transportation Emergency Telephone: CHEMTREC: 1-800-424-9300

(Outside U.S. 1-703-527-3887)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2B

Sensitization, respiratory

Sensitization, skin

Category 1

Carcinogenicity

Category 1A

Reproductive toxicity

Category 1A

Reproductive toxicity Effects on or via lactation

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement

H317 May cause an allergic skin reaction.

H320 Causes eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H350 May cause cancer.

H360 May damage fertility or the unborn child. H362 May cause harm to breast-fed children.

Precautionary statement

Prevention

P201 Obtain special instructions before use.

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

P261 P263 P264 P270 P280 P285	Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.
Response	
P302 + P352 P304 + P341	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Trenbolone Acetate		10161-34-9	50 - 59
Tylosin Tartrate	Tylosin, (2R,3R)-2,3-dihydroxybutanedioate (salt) LSN 029510	1405-54-5	8 - 19
Estradiol		50-28-2	5 - 6
Other components below reportable levels			20 - < 30

Composition comments

This product consists of 4 to 10 Trenbolone Acetate and Estradiol Pellets packaged with a Tylosin Tartrate (Tylan) pellet as a single implant, with 20 implants encased in a single plastic cartridge belt that poses no exposure risk unless the belt is damaged.

4. First-aid measures

InhalationOxygen or artificial respiration if needed. Get medical attention immediately.Skin contactRemove contaminated clothing and shoes. Get medical attention immediately.

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. If conscious, give the victim plenty of water

to drink. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Most important symptoms/effects, acute and delayed

May cause allergic skin reaction. May cause allergic respiratory reaction. Eye irritation. May cause cancer. May cause reproductive effects.

Intact implants are not considered hazardous under normal handling procedures. Caution should be used to avoid contact with the contents which contain trenbolone acetate and estradiol. In men, overexposure may lead to gynecomastia (breast tenderness, breast nodules or enlarged breasts), galactorrhea (secretion of milk), decreased libido and damage to the testes resulting in atrophy and infertility. In women, overexposure may cause menstrual irregularities (breakthrough bleeding, change in menstrual flow, spotting, amenorrhea), temporary infertility, breast changes (tenderness, enlargement, and secretion), hirsutism (excessive hair growth), and fluid retention. Increased breast size in boys and pseudoprecocious puberty in girls have been observed in children born to occupationally exposed women. Other effects of exposure to estradiol may include headache, nausea, vomiting, abnormal blood clotting, and increased incidence of cancer. An accelerated skeletal maturation, strong pigmentation of the sexual organs and a feminizing syndrome in boys has also been noted in children of parents who work in estrogen production.

Indication of immediate medical attention and special treatment needed

The estradiol may aggravate pre-existing estrogen-dependent neoplasias including malignancies of the female reproductive organs and breast, thromboembolic diseases, impaired liver or kidney function, and pregnancy.

General information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media
Unsuitable extinguishing

Water. Carbon dioxide (CO2). Dry chemical.

None known.

Specific hazards arising from the chemical

Hazardous decomposition products formed under fire conditions.

Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

Fire fighting equipment/instructions

Use water spray to cool unopened containers.

Specific methods

media

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust and contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

If pellets remain intact, scoop or scrape up material into containers for disposal. If pellets are broken, contain dry material by lightly misting with water, followed by vacuuming. Vacuum material with appropriate dust collection filter in place. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist/wet material and remove by mopping or wet wiping.

Large spills due to traffic accidents, etc., should be reported immediately to CHEMTREC and Elanco Animal Health for assistance.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes.

7. Handling and storage

Precautions for safe handling

NOT INTENDED FOR HUMAN USE.

Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

8. Exposure controls/personal protection

Occupational exposure limits

Lilly (LEG)

Components	Туре	Value	Form	
Estradiol (CAS 50-28-2)	Excursion Limit	0.075 ug/m3	(30 minutes)	_
	TWA (12hrs)	0.025 ug/m3		
	TWA (8hrs)	0.04 ug/m3		
Trenbolone Acetate (CAS 10161-34-9)	TWA (12hrs)	0.05 ug/m3		
,	TWA (8hrs)	0.07 ug/m3		

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines LEG = Lilly Exposure Guideline: 12 hour TWA <100 ug/m3 (Tylosin Tartrate)

Appropriate engineering

controls ventilated enclosure, isolator (eg. glovebag, glovebox), or closed material transfer systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Chemical resistant gloves.

Other Chemical-resistant gloves and impermeable body covering to minimize skin contact.

Respiratory protection Select appropriate respirator for physical characteristics of material. Select respirator with

appropriate protection factor.

Thermal hazards Not available.

General hygiene considerations

The intact implant is not considered hazardous under normal handling procedures.

In a manufacturing setting, wear chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or

Open handling is not recommended. Use appropriate control measures such as fume hood,

face shield may not be required. Safety glasses are always required.

Under normal use and handling conditions, wear goggles to protect eyes and wear impermeable gloves and protective equipment to avoid direct contact with skin. Wash thoroughly with soap and

water after handling.

9. Physical and chemical properties

Appearance Cylindrical pellets packaged as an implant.

Physical state Solid.
Form Solid.

Color Blue (Tylosin Tartrate)

Pale yellow (Testosterone Propionate and Estradiol Benzoate)

Odor Odorless

Odor threshold

pH

No data available.

Melting point/freezing point

Initial boiling point and boiling

No data available.

No data available.

range

Flash point

No data available.

Evaporation rate

No data available.

Flammability (solid, gas)

No test data available.

Upper/lower flammability or explosive limits

Flammability limit - lower

No data available.

(%)

Flammability limit - upper

No data available.

(%)

Explosive limit - lower (%) No data available.

Explosive limit - upper (%) No data available.

Vapor pressureNo data available.Vapor densityNo data available.Relative densityNo data available.

Solubility(ies)

Solubility (water) No data available.

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperatureNo data available.Decomposition temperatureNo data available.ViscosityNo data available.

Other information

Density No data available.

Explosive properties Not explosive

Oxidizing properties No oxidizing properties.

Potential for dust No data available.

explosion

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition Hazardous de

products

Hazardous decomposition products formed under fire conditions.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Estradiol (CAS 50-28-2)		
<u>Acute</u>		
Dermal		
LD	Rabbit	> 100 mg/kg No deaths or toxicity.
Oral		
LD	Rat	> 500 mg/kg No deaths.
Trenbolone Acetate (CAS	10161-34-9)	
<u>Acute</u>		
Oral		
LD	Rat	> 5000 mg/kg
LD50	Mouse	2700 mg/kg
Tylosin Tartrate (CAS 140	5-54-5)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 600 mg/m3, 1 h
Oral		
LD50	Rat	> 6200 mg/kg

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritationDue to partial or complete lack of data the classification is not possible.

Serious eye damage/eye irritation

Causes eye irritation. (Tylosin Tartrate) (cleared within 7 days)

Respiratory or skin sensitization

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Negative in bacterial cells. Induced micronuclei but not chromosomal aberrations, aneuploidy, or sister chromatid exchanges in in-vitro human cell assays. Induced aneuploidy and unscheduled DNA synthesis but did not induce DNA strand breaks or sister chromatid exchanges in in-vitro rodent cell assays. Did not induce chromosomal aberrations in bone marrow cells of mice treated in-vivo. (Estradiol)

Results in genetic toxicity assays (in vitro): Negative (Trenbolone Acetate)

Mutagenic in one mammalian test system. Not mutagenic in bacterial cell tests and other mammalian cell tests. Unlikely to pose a genotoxic risk to man. (Tylosin Tartrate, as free base)

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

Carcinogenicity IARC Group 1 (sufficient evidence of carcinogenicity in humans).

Estrogen-only menopausal therapy is carcinogenic to humans (Group 1)

IARC has not classified trenbolone acetate for carcinogenicity. NTP and OSHA have not listed trenbolone as a human carcinogen. Androgens as a class are considered probable human carcinogens.

Animal testing did not show any carcinogenic effects. (Tylosin Tartrate, as free base)

IARC Monographs. Overall Evaluation of Carcinogenicity

Estradiol (CAS 50-28-2) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Estradiol (CAS 50-28-2) Known To Be Human Carcinogen.

Reproductive toxicity May cause harm to breastfed babies. May damage fertility or the unborn child.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure
Aspiration hazard

No aspiration toxicity classification

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Estradiol (CAS 50-28-2	2)		
Aquatic			
Fish	LC50	Medaka, high-eyes (Oryzias latipes)	460 μg/l, 72 h
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 0.5 mg/l, 48 h
Trenbolone Acetate (C.	AS 10161-34-9)		
Aquatic			
Crustacea	NOEC	Daphnia magna	0.58 mg/l, 48 h
Acute			
Crustacea	EC50	Daphnia magna	1.34 mg/l, 48 h
Tylosin Tartrate (CAS 1	1405-54-5)		
	EC50	Oats (Seedling)	140 mg/kg (Growth, as free base)
		Soybean (Seedling)	53 mg/kg (Growth, as free base)
		Tomato (Seedling)	43 mg/kg (Growth, as free base)
Acute			
	LC50	Duck (Mallard duck)	> 5000 mg/kg, 5 days (dietary, as free base)

Components		Species	Test Results
		Quail (Bobwhite quail)	> 5000 mg/kg, 5 days (dietary, as free base)
Other	EC50	Pseudokirchnerella subcapitata	0.22 mg/l (average specific growth rate) (as free base)
Chronic			
	LC50	Earthworms (Eisenia fetida)	> 102.6 mg/kg, 14 days
		Quail (Bobwhite quail)	> 2000 mg/kg, 14 days
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	> 300 mg/l (as free base)
Fish	LC50	Bluegill (Lepomis macrochirus)	> 300 mg/l (as free base)
		Rainbow Trout	> 300 mg/l (as free base)

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

The product contains potentially bioaccumulating substances.

Partition coefficient n-octanol / water (log Kow)

Estradiol 4.01
Tylosin Tartrate 17, (pH 7)
17, (pH 9)
5, (pH 5)

Mobility in soil Soil degradation half-life (100 ppm): 62 days (tylosin factor A); 37 days (tylosin factor D)

Soil degradation half-life (1 mg/kg; 4 soils): 50.3 to 105 days

Leaching in soil column: none

Adsorption

Soil/sediment sorption - log Koc

Tylosin Tartrate 1652 Silt Loom (pH 5.7) 200 Sandy Loom (pH 4.6) 2233 Sandy Loom (pH 7.6)

Other adverse effects Not available.

Ecotoxicological Properties

Drinking Water

Components	Test Results	
Estradiol	0.00022 μg/l, (Lilly Aquatic Exposure Guideline)	
Γylosin Tartrate 36 μg/l, (Lilly Aquatic Exposure Guildeline)		
Chronic Exposure of Aquatic Organisms		
Components	Test Results	
Estradiol	0.0009 μg/l, (Lilly Aquatic Exposure Guideline)	
Tylosin Tartrate	99 μg/l, (Lilly Aquatic Exposure Guildeline)	
Acute Exposure of Aquatic Organisms		
Components	Test Results	
Estradiol	0.009 μg/l, (Lilly Aquatic Exposure Guideline)	
Tylosin Tartrate	220 μg/l, (Lilly Aquatic Exposure Guildeline)	

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Do not allow this material to drain into sewers/water supplies.

14. Transport information

General information Effective January 1, 2015 by Special Provision, UN3077 and UN3082 when packaged in inner

packages of 5L / 5 KG or less are not subject to the dangerous goods regulations.

DOT

Not regulated as dangerous goods.

IATA

UN3077 **UN** number

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Trenbolone Acetate, Tylosin Tartrate)

Transport hazard class(es)

9 **Class** Subsidiary risk Ш **Packing group Environmental hazards** Yes **ERG Code** 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only Allowed.

IMDG

UN3077 **UN number**

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trenbolone Acetate, Tylosin

Tartrate)

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant Yes F-A, S-F

EmS Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not applicable.

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

the IBC Code

IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

One or more components are not listed on 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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Estradiol (CAS 50-28-2)

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Estradiol (CAS 50-28-2)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

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

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Estradiol (CAS 50-28-2) Listed: January 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Estradiol (CAS 50-28-2) Listed: April 1, 1990

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)No

Canada Non-Domestic Substances List (NDSL) No

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 03-18-2015 **Revision date** 09-21-2015

Version # 02

Lilly Lab Code

Health: 2 Fire: 1 Reactivity: 0 Special 1: C Special 2: R Special 3: P Special 4: A

Disclaimer

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:

Elanco Animal Health 0011+1-877-352-6261 0011+1-800-428-4441

Revision Information

Product and Company Identification: Alternate Trade Names

Hazard(s) identification: Hazard statement

Composition/information on ingredients: Component information

Handling and storage: Precautions for safe handling

Exposure controls/personal protection: Exposure guidelines

Toxicological Information: Toxicological Data Toxicological information: Carcinogenicity

Transport Information: Material Transportation Information

GHS: Classification