# SAFETY DATA SHEETS

This SDS packet was issued with item: 078705253

N/A

## ((**Vet**Life COMPONENT <u>WITH</u> 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.

**ylan** 

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.

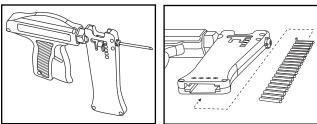
A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

### 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.



Obtained by Global Safety Management, Inc. (www.globalsafetynet.com)

### 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

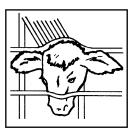
Scrub the back side of the ear (implant site) with a piece of clean absorbent cotton which has been soaked with topical germicidal solution. Follow manufacturer's directions on germicide for correct strength and preparation of solution. Avoid getting disinfectant in animal's eyes.

### 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.

#### Insert the Needle

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

Material name: Component TE-H, TE	-IH, TE-100, and TE-200 Implants with Tylan	SDS US	
P263	Wash hands thoroughly after handling.		
P261 P263	Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing.		
P202	Do not handle until all safety precaution		
P201	Obtain special instructions before use.		
Prevention			
Precautionary statement			
H360 H362	May cause harm to breast-fed children.		
H350 H360	May cause cancer. May damage fertility or the unborn child.		
H334	May cause allergy or asthma symptoms	or breathing difficulties if inhaled.	
H320	Causes eye irritation.		
H317	May cause an allergic skin reaction.		
Hazard statement			
Signal word	Danger		
Label elements			
OSHA defined hazards	Not classified.		
	Reproductive toxicity	Effects on or via lactation	
	Reproductive toxicity	Category 1A	
	Carcinogenicity	Category 1A	
	Sensitization, skin	Category 1	
	Sensitization, respiratory	Category 1	
Health hazards	Serious eye damage/eye irritation	Category 2B	
Physical hazards	Not classified.		
2. Hazard(s) identification			
Telephone:	(Outside U.S. 1-703-527-3887)		
Transportation Emergency	CHEMTREC: 1-800-424-9300		
Email:	elanco_sds@elanco.com		
Emergency Telephone:	Elanco Product Technical Support / Hun 1-888-545-5973	nan or Animal Exposure Reporting:	
Phone:	1-877-Elanco1 (1-877-352-6261)		
	US		
	Greenfield, IN 46140		
	2500 Innovation Way		
Company Name	Elanco Animal Health		
Manufacturer/Importer/Supplier/			
Recommended restrictions	None known.		
Recommended use	Veterinary Pharmaceutical		
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		
Item Code	AH0342, AH0513, AH0515, AH0511		
Other means of identification			
Product identifier	Component TE-H, TE-IH, TE-100, and TE-200 Implants with Tylan		

P270	Do not eat, drink or smoke when using this product.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P285	In case of inadequate ventilation wear respiratory protection.	
Response		
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P304 + P341	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 report	rtable levels		20 - < 30
Composition comments	This product consists of 4 to 10 Trenbolone Aceta Tartrate (Tylan) pellet as a single implant, with 20 belt that poses no exposure risk unless the belt is	implants encased in a sir	
4. First-aid measures			
Inhalation	Oxygen or artificial respiration if needed. Get med	ical attention immediately	Ι.
Skin contact	Remove contaminated clothing and shoes. Get me	edical attention immediat	ely.
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 immediat to drink. Never give anything by mouth to a victim		
Most important symptoms/effects, acute and delayed	May cause allergic skin reaction. May cause allerg cancer. May cause reproductive effects.	jic respiratory reaction. E	ye irritation. May cause
ueiayeu	Intact implants are not considered hazardous under be used to avoid contact with the contents which of overexposure may lead to gynecomastia (breast to galactorrhea (secretion of milk), decreased libido a and infertility. In women, overexposure may cause bleeding, change in menstrual flow, spotting, amer (tenderness, enlargement, and secretion), hirsutis Increased breast size in boys and pseudoprecocid children born to occupationally exposed women. Of headache, nausea, vomiting, abnormal blood clott accelerated skeletal maturation, strong pigmentati syndrome in boys has also been noted in children	contain trenbolone acetat enderness, breast nodule and damage to the testes e menstrual irregularities norrhea), temporary infer m (excessive hair growth bus puberty in girls have to other effects of exposure ing, and increased incide on of the sexual organs a	e and estradiol. In men, es or enlarged breasts), resulting in atrophy (breakthrough tility, breast changes ), and fluid retention. been observed in to estradiol may include ince of cancer. An and a feminizing

Indication of immediate	The estradiol may aggravate pre-existing estrogen-dependent neoplasias including malignancies
medical attention and special	of the female reproductive organs and breast, thromboembolic diseases, impaired liver or kidney
treatment needed	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	Water. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media	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	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	
Elanco OEL Components	Туре	Value	
Trenbolone Acetate (CAS 10161-34-9)	TWA (12hrs)	0.05 ug/m3	
	TWA (8hrs)	0.07 ug/m3	
iological limit values	No biological exposure limits noted for the ingredient(s).		
xposure guidelines	: 12 hour TWA <100 ug/m3 (Tylosin Tartrate)		
ppropriate engineering ontrols	Open handling is not recommended. Use appropriate control measures such as fume hood, 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. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the respirator.	
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 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

5. 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	No data available		
рН	No data available.		
Melting point/freezing point	No data available.		
Initial boiling point and boiling range	No data available.		
Flash point	No data available.		
Evaporation rate	No data available.		
Flammability (solid, gas)	No test data available.		
Upper/lower flammability or exp	losive 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 pressure	No data available.		
Vapor density	No data available.		
Relative density	No data available.		
Solubility(ies)			
Solubility (water)	No data available.		
Partition coefficient (n-octanol/water)	No data available.		
Auto-ignition temperature	No data available.		
Decomposition temperature	No data available.		
Viscosity	No 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

Reactivity	The 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 reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions.

## 11. Toxicological information

## Information on toxicological effects

Acute toxicity			
Product	Species	Test Results	
Component TE-H, TE-IH, TE-100	, and TE-200 Implants with Tylan		
Acute			
Dermal			
LD50	Rabbit	23040 mg/kg	
Oral			
LD50	Rat	71430 mg/kg	
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)		
Oral			
LD50	Rat	5000 mg/kg	
Tylosin Tartrate (CAS 1405-54-5)			
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
LC50	Rat	> 600 mg/m3, 1 h	
Oral			
LD50	Rat	> 6200 mg/kg	
Skin corrosion/irritation	Due to partial or complete lack of data th	Due 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 sensitizatio	n		
Respiratory sensitization		May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitization	May cause an allergic skin reaction.		

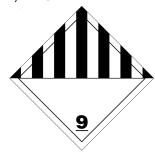
Germ cell mutagenicity	Negative in bacterial cells. Induced micronuclei but not chromosomal aberrations, aneuploidy, or sister chromatid exchanges in in-vitro human cell assays. Induced aneuploidy and unscheduled DNA synthesis but did not induce DNA strand breaks or sister chromatid exchanges in in-vitro 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.
	d Substances (29 CFR 1910.1001-1052)
Not regulated.	ogram (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.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	No aspiration toxicity classification

## 12. Ecological information

otoxicity	Very toxic	to aquatic life with long lasting effects.	
Components		Species	Test Results
Estradiol (CAS 50-28-	-2)		
Chronic			
Other	NOEC	Pseudokirchnerella subcapitata	>= 0.523 mg/l, 72 h
Aquatic			
Acute			
Algae	EC50	Algae	> 3.1 mg/l, 72 h (Desmodesmus subspicatus)
Crustacea	EC50	Water flea (Daphnia magna)	2.87 mg/l, 48 h
Fish	LC50	Medaka, high-eyes (Oryzias latipes)	460 μg/l, 72 h
Chronic			
Crustacea	NOEC	Water flea (Daphnia magna)	0.2 mg/l, 48 h
Fish	LC50	Medaka, high-eyes (Oryzias latipes)	0.002 µg/l, 96 h
Tylosin Tartrate (CAS	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 fre base)
		Quail (Bobwhite quail)	> 5000 mg/kg, 5 days (dietary, as fre base)

Components		Species	Test Results	
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	.C50 Bluegill (Lepomis macrochirus)		> 300 mg/l (as free base)	
		Rainbow Trout	> 300 mg/l (as free base)	
Estradiol Drinking water LAEG (at the p Chronic LAEG (at the edge of Acute LAEG (at the edge of th Persistence and degradability	the acute mixing the chronic mix point where surf tooint where surf the chronic mix he acute mixing No data is av	xing zone): ace water is taken for drinking water): face water is taken for drinking water): xing zone): zone): railable on the degradability of this produ		
Bioaccumulative potential Partition coefficient n-octan	-	contains potentially bioaccumulating sub	ostances.	
Estradiol Tylosin Tartrate		4.01 17, (pH 7) 17, (pH 9) 5, (pH 5)		
Nobility 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 - Tylosin Tartrate	- log Koc	1652 Silt Loom (pH 5	.7)	
		200 Sandy Loom (p⊢		
		2233 Sandy Loom (p	H 7.6)	
Other adverse effects	Not available		H 7.6)	
			H 7.6)	
Other adverse effects 13. Disposal consideratior Disposal instructions	<b>1S</b> Dispose of co		al/regional/national/international regulations.	
13. Disposal consideration	<b>1S</b> Dispose of co	ontents/container in accordance with loc	al/regional/national/international regulations.	
13. Disposal consideration	<b>IS</b> Dispose of co Do not allow Effective Jan	ontents/container in accordance with loc this material to drain into sewers/water s	al/regional/national/international regulations. supplies. 077 and UN3082 when packaged in inner	
13. Disposal consideration Disposal instructions 14. Transport information	<b>IS</b> Dispose of co Do not allow Effective Jan	ontents/container in accordance with loc this material to drain into sewers/water s uary 1, 2015 by Special Provision, UN3	al/regional/national/international regulations. supplies. 077 and UN3082 when packaged in inner	
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<ul> <li>13. Disposal consideration</li> <li>Disposal instructions</li> <li>14. Transport information</li> <li>General information</li> <li>DOT <ul> <li>Not regulated as dangerous g</li> </ul> </li> <li>ATA <ul> <li>UN number</li> </ul> </li> </ul>	Dispose of co Do not allow Effective Jan packages of oods. UN3077	ontents/container in accordance with loc this material to drain into sewers/water s uary 1, 2015 by Special Provision, UN3 5L / 5 KG or less are not subject to the o	al/regional/national/international regulations. supplies. 077 and UN3082 when packaged in inner langerous goods regulations.	
<ul> <li>13. Disposal consideration</li> <li>Disposal instructions</li> <li>14. Transport information</li> <li>General information</li> <li>DOT <ul> <li>Not regulated as dangerous general</li> <li>ATA</li> <li>UN number</li> <li>UN proper shipping name</li> <li>Transport hazard class(es)</li> </ul> </li> </ul>	Dispose of co Do not allow Effective Jan packages of oods. UN3077 Environmenta	ontents/container in accordance with loc this material to drain into sewers/water s uary 1, 2015 by Special Provision, UN3	al/regional/national/international regulations. supplies. 077 and UN3082 when packaged in inner langerous goods regulations.	
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13. Disposal consideration Disposal instructions 14. Transport information General information DOT Not regulated as dangerous gr ATA UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group	<b>1S</b> Dispose of co Do not allow Effective Jan packages of oods. UN3077 Environmenta 9 - III Yes 9L	ontents/container in accordance with loc this material to drain into sewers/water s uary 1, 2015 by Special Provision, UN36 5L / 5 KG or less are not subject to the o	al/regional/national/international regulations. supplies. 077 and UN3082 when packaged in inner langerous goods regulations.	

Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trenbolone Acetate, Estradiol)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
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.

**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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Re	authorization Act of 1986 (SA	RA)	
Classified hazard categories	Serious eye damage or eye ir Respiratory or skin sensitizati Carcinogenicity Reproductive toxicity		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants	s (HAPs) List	
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release Pr	evention (40 CFR 68.130)	
Not regulated.			
US state regulations			
California Proposition 65			
	ARNING: This product contains th defects or other reproductive	a chemical known to the State of Califorr harm.	nia to cause cancer and
California Proposition 6	5 - CRT: Listed date/Carcinog	jenic substance	
Estradiol (CAS 50-28	3-2)	Listed: January 1, 1988	
California Proposition 6	5 - CRT: Listed date/Develop	nental toxin	
Estradiol (CAS 50-28	3-2)	Listed: April 1, 1990	
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Canada	Domestic Substances List (DS	SL)	No
Canada	Non-Domestic Substances Lis	st (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act	(TSCA) Inventory	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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 Revision date	03-18-2015 03-26-2019
Version #	04
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 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.

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