# SAFETY DATA SHEETS

## This SDS packet was issued with item:

078394319

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

078799288

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **Component TE-G, TE-IS, and TE-S Implants with Tylan**

**Other means of identification**

**Item Code** AH0369, AH0508, AH0358, AH0973

**Synonyms** Component TE-G Implant with Tylan * Component TE-IS Implant with Tylan * Component TE-S 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 Numbers:** Elanco Product Technical Support / Human or Animal Exposure Reporting: 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 | Category 1 |
| 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. |



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| | |
|---|---|
| P261 | Avoid breathing dust. |
| P263 | Avoid contact during pregnancy/while nursing. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| 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 | 40 - 54 |
| Tylosin Tartrate | Tylosin, (2R,3R)-2,3-dihydroxybutanedioate (salt)<br>LSN 029510 | 1405-54-5 | 11 - 30 |
| Estradiol | | 50-28-2 | 8 - 11 |
| Other components below reportable levels | | | 20 - < 30 |

**Composition comments** This product consists of 2 to 7 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

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention immediately.

**Skin contact** Immediately flush skin with plenty of water. Get medical attention if irritation persists after washing. Remove contaminated clothing and shoes.

**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 immediately.

**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.

**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.



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## 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.<br><br>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.<br>Do not handle until all safety precautions have been read and understood. Pregnant or breastfeeding women must not handle this product. 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 | Type | 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** | Lilly Exposure Guideline (LEG): 12 hour TWA <100 ug/m3 (Tylosin Tartrate) |
| **Appropriate engineering controls** | 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. |



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| | |
|---|---|
| **Respiratory protection** | Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor. If material is handled in a fume hood or ventilated enclosure, consider using redundant respiratory protection. |
| **Thermal hazards** | Not available. |
| **General hygiene considerations** | The intact implant is not considered hazardous under normal handling procedures.<br><br>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.<br><br>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** | |
| **Physical state** | Solid. |
| **Form** | Solid. Cylindrical pellets packaged as an implant. |
| **Color** | Blue (Tylosin Tartrate)<br><br>Light yellow (Component TE-S) |
| **Odor** | Odorless |
| **Odor threshold** | No data available |
| **pH** | 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 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 pressure** | No data available. |
| **Vapor density** | No data available. |
| **Relative density** | No data available. |
| **Solubility(ies)** | |
| **Solubility (water)** | (Tylosin Tartrate), soluble, (Component TE), insoluble |
| **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 explosion** | No data available. |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |



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| | |
|---|---|
| **Chemical stability** | Material is stable under normal conditions. |
| **Possibility of hazardous reactions** | Hazardous polymerization does not occur. |
| **Conditions to avoid** | Contact with incompatible materials. None known. |
| **Incompatible materials** | Strong oxidizing agents. |
| **Hazardous decomposition 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) | | |
| **Acute** | | |
| **Dermal** | | |
| LD | Rabbit | > 100 mg/kg No deaths or toxicity. |
| **Oral** | | |
| LD | Rat | > 500 mg/kg No deaths. |
| Trenbolone Acetate (CAS 10161-34-9) | | |
| **Acute** | | |
| **Oral** | | |
| LD | Rat | > 5000 mg/kg |
| LD50 | Mouse | 2700 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 |

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

| | |
|---|---|
| **Skin corrosion/irritation** | 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 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)<br><br>Results in genetic toxicity assays (in vitro): Negative (Trenbolone Acetate)<br><br>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. |



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**Carcinogenicity** May cause cancer. IARC Group 1 (sufficient evidence of carcinogenicity in humans). Estrogen-only menopausal therapy is carcinogenic to humans (Group 1) (Estradiol)

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.

**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

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|---|---|---|---|
| Estradiol (CAS 50-28-2) | | | |
| **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 (CAS 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 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) |
| | | 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.



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**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)<br>17, (pH 9)<br>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)<br>200 Sandy Loom (pH 4.6)<br>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) |
| Tylosin 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**

**UN number** UN3077
**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s. (Trenbolone Acetate, Tylosin Tartrate)
**Transport hazard class(es)**
**Class** 9
**Subsidiary risk** -
**Packing group** III
**Environmental hazards** Yes
**ERG Code** 9L
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.
**Other information**
**Passenger and cargo aircraft** Allowed.
**Cargo aircraft only** Allowed.

**IMDG**

**UN number** UN3077
**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Trenbolone Acetate, Tylosin Tartrate)



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**Transport hazard class(es)**

| | |
|---|---|
| **Class** | 9 |
| **Subsidiary risk** | - |

**Packing group** III

**Environmental hazards**

| | |
|---|---|
| **Marine pollutant** | Yes |

**EmS** F-A, S-F

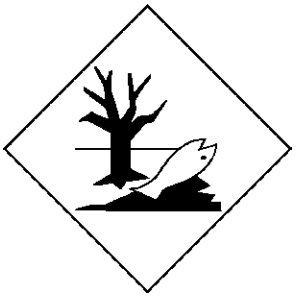
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**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.

**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.



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

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

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

**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 region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Canada | Domestic 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** 03-17-2015

**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



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**Revision Information**

Product and Company Identification: Alternate Trade Names
Hazard(s) identification: Hazard statement
Hazard(s) identification: Prevention
Hazard(s) identification: Response
Composition/information on ingredients: Component information
Exposure controls/personal protection: Exposure guidelines
GHS: Classification



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