Tylosin (cas 1405-54-5) MSDS

MATERIAL SAFETY DATA SHEET

TYLOVET
TYLOSIN TARTRATE SOLUBLE

STATEMENT OF HAZARDOUS NATURE:
"Hazardous according to criteria of Worksafe Australia"
Harmful; R42/43 May cause sensitisation by inhalation and skin contact.
Irritant; R36 Irritating to eyes.

Company Name and Address:
Pharm Tech Pty Limited
Suite 8, 67 Macalister St
Sale VIC 3850

Contact Numbers Australia Wide:
Tel: 0500 886 668
Fax: 0500 886 669

Emergency Telephone Numbers:
As Above
O Poisons Information Centre:
131126 (Australia-wide)

Section 1 -Identification
Product Name: TYLOVET TYLOSIN TARTRATE SOLUBLE
Other Names: Tylosin Tartrate
UN Number: None allocated
Dangerous Goods Class/Subsidiary Risk: None allocated
Hazchem Code: None allocated
Poisons Schedule Number: S4
Pack Size and Container Type: 110g Polyethelyene Sachet, 1.1kg Polyethylene/foil laminated bag,
Use:
Major Recommended Uses: As an aid in the prevention and treatment of chronic respiratory disease in broilers and replacement chickens, infectious sinusitis in turkeys and swine dysentery in pigs.
Major Recommended Method(s) of application: Mixed as medicated drinking water.

Section 2 -Composition I Information on Ingredients
Ingredient CAS.
Tylosin Tartrate 1405-54-5
Exposure Guidelines: PEL and TLV not established. LEG <100 micro~s/m3 TWA for 12 hours.

Section 3 -Hazard Identification
Appearance: Light to medium yellow granular powder
Physical State: Solid
Odor: Odorless

Emergency Overview
Primary Physical and Health Hazards: Irritant (eyes). Severe Allergen.
Caution Statement: Tylan Soluble (Tylosin Tartrate) may be irritating to the eyes and is classified as a severe allergen because repeated unprotected exposures are likely to cause allergic reactions.
Routes of Entry: Inhalation and skin contact.
Potential Signs and Symptoms of Occupational Exposure: Allergic reactions to Tylosin in a manufacturing setting have been reported. Allergy symptoms may include skin rash, watery eyes, shortness of breath, nasal congestion, coughing, and wheezing. Based on animal data, may be irritating to the eyes.
Medical Conditions Aggravated by Exposure: Hypersensitivity to Tylosin.
Carcinogenicity: Tylosin - Not listed by IARC, NTP, ACGIH, or OSHA. Not considered carcinogenic in animal studies conducted by Lilly Research Laboratories.

Section 4 - First Aid Measures
Eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. See an ophthalmologist (eye doctor) or other physician immediately.
Skin: Remove contaminated clothing and clean before reuse. Wash all exposed areas of skin with plenty of soap and water. Get medical attention if irritation develops.
Inhalation: Move individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, provide artificial respiration assistance (mouth-to-mouth) and call a physician immediately.
Ingestion: Do not induce vomiting. Call a physician or Poisons Information Centre. If available, administer activated charcoal (6-8 heaping teaspoons) with two to three glasses of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

Section 5 - Fire Fighting Measures
Flash Point: Not applicable.
VEL: No applicable information found.
LEL: No ignition up to 0.605 oz cu ft.
Extinguishing Media: Use water, carbon dioxide, dry chemical, foam, or Halon.
Unusual Fire and Explosion Hazards: As a finely divided material, may form dust mixtures in air which could explode if subjected to an ignition source.
Hazardous Combustion Products: May emit toxic fumes when exposed to heat or fire.
Additional Information: Minimum Ignition Temperature of Dust Layer: 160??C (320??F)

Section 6 - Accidental Release Measures
Spills: Contain dry material by lightly misting with water, followed by sweeping up or vacuuming. Vacuuming may disperse dust if appropriate dust collection filter is not part of the vacuum. Be aware of potential for dust explosion when using electrical equipment. Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions).

Section 7 - Handling and Storage
Storage: Store below 25??C (Air Conditioning) in a dry place.

Section 8 - Exposure Controls / Personal Protection
Respiratory Protection: Use an approved respirator.
Eye Protection: Chemical goggles and/or face shield.
Ventilation: Laboratory fume hood or local exhaust ventilation.
Other Protective Equipment: 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.
Other Handling Precautions: In production settings, airline-supplied, hood-type respirators are preferred. Shower and change clothing if skin contact occurs.

Section 9 - Physical and Chemical Properties
Boiling Point: Not applicable.
Melting Point: No applicable information found.
Specific Gravity: Not applicable.
pH: 4.5-7.2 (2.5% aqueous).
Evaporation Rate: No applicable information found.
Water Solubility: Soluble.
Vapor Density: No applicable information found.
Vapor Pressure: No applicable information found.

Section 10 - Stability and Reactivity
Stability: Stable at normal temperatures and pressures.
Incompatibility: May react with strong oxidizing agents (e.g., peroxides, permanganates, nitric acid, etc.).
Hazardous Decomposition: May emit toxic fumes when heated to decomposition.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information
Animal Toxicity Data Single Exposure
Oral: Rat, 6200 mg/kg, no deaths or toxicity.
Skin: Rabbit, 2000 mg/kg, no deaths or toxicity.
Inhalation: Rat, 600 mg/m³ for 1 hour, no deaths.
Skin Contact: Rabbit, slight irritant.
Eye Contact: Rabbit, irritant.

Animal Toxicity Data Repeat Exposure
No data are available for Tylan Soluble (Tylosin Tartrate). Toxicity data for Tylosin base are presented.

Target Organ Effects: Tylosin base -No effects identified in animal studies.
Other Effects: Tylosin base -Salivation, diarrhea, vomiting.
Reproduction: Tylosin base -No effects identified in animal studies.
Sensitization: Tylosin base -Guinea pig, positive contact sensitizer.
Mutagenicity: Tylosin base -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.

Section 12 - Ecological Information
No data are available for this material. Ecological data for Tylosin base are presented.

Ecotoxicity Data: Tylosin base
Rainbow trout 96-hour median lethal concentration: > 300 mg/L
Bluegill 96-hour median lethal concentration: > 300 mg/L
Daphnia magna 48-hour median effective concentration: > 300 mg/L
Bobwhite 14-day oral median lethal concentration: > 2000 mg/kg
Bobwhite 5-day dietary median lethal concentration: > 5000 ppm
Mallard 5-day dietary median lethal concentration: > 5000 ppm
Earthworm 28-day median lethal concentration: > 102.6 mg/kg

Environmental Fate: Tylosin base
Log Kow: 1.7
Water solubility (g/L): 5
Light absorption in ethanol (nm): 282

Soil degradation half-life (days): 62 for Tylosin factor A, 37 for Tylosin factor Soil leaching: none measured

Environmental Summary: Tylosin base - Practically nontoxic to fish, birds, earthworms, and aquatic invertebrates. No volatility expected. Not expected to bioconcentrate in aquatic organisms. Low mobility in soil. Not persistent in the environment due to degradation and possible photolysis.

Lilly Aquatic Exposure Guideline (LAEG): Tylosin base
LAEG for Drinking Water: 36 micrograms/L
LAEG for Chronic Exposure of Aquatic Organisms: 2500 micrograms/L
LAEG for Acute Exposure of Aquatic Organisms: 5000 micrograms/L

Section 13 - Disposal Considerations
Waste Disposal: Shake and empty contents into medicated water. Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty containers in a local authority landfill. If not available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

Section 14 - Transport Information
No special transport requirements necessary.

Section 15 - Other Information
Sections revised: Elanco telephone/fax numbers, 1, and 7.
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 MERCHANTABILITY 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.

CONTACT POINT:
Elanco Animal Health, West Ryde, N.S.W. (refer contact numbers on page 1 of this document)

GLOSSARY