

Tylan 200 for Injection

Effective Date: 20 September 2011

Section 1 – Identification of the substance and supplier

Product Name: Tylan 200 Injection

Manufacturer's Product AH0206

Code:

UN number: N/A
Proper Shipping Name: N/A
Pack Size: 100ml

Recommended use: An injectable antibiotic for cattle, pigs, sheep

and goats.

NEW ZEALAND COMPANY DETAILS: NEW ZEALAND EMERGENCY PHONE:

Elanco Animal Health

(Division of Eli Lilly & Company (NZ)

Limited)

Level 1, 123 Ormiston Road Botany Junction, Auckland 2016

Telephone: 09 523 9320 (Mon-Fri, 8.30am – 5.00pm) 0800 ELANCO (0800 352 626)

www.elanco.co.nz

0800 POISON (0800 764 766)

National Poisons Centre:

24 hours

CHEMCALL:

0800 CHEMCALL (0800 243 622)

24 hours

Section 2 - Hazards Identification

Classified as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Tylan 200 for Injection is approved pursuant to the HSNO Act 1996, HSR002368. The EPA website www.epa.govt.nz should be consulted for the full list of triggered controls and cited regulations.

HSNO Classifications: 6.4A Eye irritant

6.5B Skin allergen9.1A Aquatic ecotoxin9.2D Soil ecotoxin

Signal word: WARNING

Hazard Statements: Causes eye irritation

May cause an allergic skin reaction

Very toxic to aquatic life

Harmful to the soil environment

Precautionary Statements: Wear protective gloves, clothing, eye and

face protection when handling

Wash hands and exposed skin thoroughly

after handling

Contaminated work clothing should not be

allowed out of the workplace

Wash contaminated clothing before reuse

Avoid release to the environment

Collect spillage

Read label before use

Keep out of reach of children

Section 3 - Composition / Information on Ingredients

Chemical Name	CAS-No.	Concentration [%]
Tylosin base	1401-69-0	5 - 20
Propylene Glycol	57-55-6	40 – 52
Benzyl Alcohol	100-51-6	2 - 5
Water	7732-18-5	25 - 37

Tylosin base:

Chemical Name: Tylosin
Alternate Chemical Name: Tylosin base

Section 4 - First Aid Measures

TREATMENT:

If swallowed: Do not induce vomiting. Call a physician or poison

control center. 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.

If inhaled: 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.

If on 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.

If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

Additional information: Accidental injection: no specific treatment is

needed other than symptomatic. Treat wound if

necessary and consider need for tetanus

immunization.

Section 5 - Fire Fighting Measures

Flash point:

Lower explosion limit:

Upper explosion limit:
Auto-ignition:

Not applicable
Not known
Not known
412°C (774°F)

Suitable extinguishing Use water, carbon dioxide, dry chemical,

media: foam, or Halon
Unsuitable extinguishing None known

media:

Unusual Fire and Explosion None known

Hazards:

Fire fighting precautions: May emit toxic fumes when exposed to heat or

fire.

Hazchem code: N/A

Section 6 - Accidental Release Measures

Protective clothing and Wear protective equipment, including eye

equipment: protection, to avoid exposure (see Section 8 for

specific handling precautions).

Environmental precautions: Prevent further migration into the environment.

Do not allow material to enter waterways.

Procedure: Use absorbent material to solidify liquid. Sweep

up or vacuum.

Emergence response For specialist advice in an emergency call 0800

assistance: CHEMCALL (0800 243 622) and Elanco Animal

Health for assistance

Section 7 - Handling and Storage

Storage instructions: Keep out of reach of children. Store below

30°C.

Handling precautions: Wash hands and exposed skin thoroughly

after handling.

Material handling Do not mix with other injectable solutions as precautions: this may cause precipitation of the active

ingredients. Do not administer to horses or other equines. Injection of tylosin in equines

has been fatal.

100L

100L

Emergency response plan

required:

Emergency containment

required:

Signage required: 100L

Approved Handler: Not required Packaging requirements: Packing group III

Section 8 - Exposure Controls / Personal Protection

Exposure limits or Tylosin base: LEG <100 µg/m³ TWA (12h)

guidelines:

,

glycol: vapour and aerosol)

10 mg/m³ TWA (8h) (aerosol

WEEL 50ppm TWA (total

only)

Benzyl alcohol: WEEL 10ppm (44.2 mg/m³)

TWA

Engineering measures: In a manufacturing setting, wear chemical-

Propylene

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.

Personal protective

equipment:

In a manufacturing setting, use protective clothing, impervious gloves, and approved respirator. Chemical goggles and/or face shield. 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.

Section 9 - Physical and Chemical Properties

Appearance: Yellow viscous solution

Physical state: Liquid Odour: Faint musty

Boiling point: No applicable information found

8.0 - 10.0:Ha **Solubility:** Soluble **Specific Gravity:** 1.09

Flammability: Not flammable

Section 10 - Stability and Reactivity

Stability: Stable at normal temperatures and pressures

Conditions to avoid: None known

Incompatible materials: May react with strong oxidizing agents (e.g.,

peroxides, permanganates, nitric acid, etc.).

Hazardous decomposition May emit toxic fumes when heated to

products: decomposition

Hazardous reactions Hazardous polymerisation does not occur

Section 11 - Toxicological Information

Toxicity data are presented for tylosin base, or a 20% tylosin base formulation with propylene glycol and benzyl alcohol.

Acute oral toxicity 20% Tylosin Rat, 535 mg/kg, no deaths or

> base mixture: toxicity

Acute inhalation toxicity 20% Tylosin Rat, 1050 mg/m3 for 1 hour,

> base mixture: no deaths

Rabbit, 2140 mg/kg, no Acute dermal toxicity 20% Tylosin

> base mixture: deaths or toxicity

Skin irritation 20% Tylosin Rabbit, slight irritant

base mixture:

Eye irritation 20% Tylosin Rabbit, slight irritant

base mixture:

Sensitisation Tylosin base: Guinea pig, positive contact

sensitizer

Repeated dose toxicity Tylosin base: No effects identified in animal

studies. Other effects

salivation, diarrhoea, vomiting.

Propylene

glycol: reported in monkeys exposed

> to saturated vapour for 18 months or dogs administered

No significant effects were

2000mg/kg for 2 years

No effects identified in animal Reproductive toxicity Tylosin base:

studies

Propylene

In animal studies, has been shown not to interfere with glycol:

reproduction

Carcinogenicity Tylosin base: Not considered carcinogenic

in animal studies conducted by Lilly Research Laboratories

Propylene

Multiple long term dietary,

glycol: inhalation,

and dermal studies

demonstrated no evidence of

carcinogenicity in mice,

rabbits, or rats.

Benzyl Two-year carcinogenicity

alcohol: studies

conducted by NTP

demonstrated no evidence of carcinogenicity in mice and

rats.

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.

Propylene glycol:

In vitro mutagenicity studies were negative. Animal

mutagenicity studies were

negative.

Section 12 - Ecological Information

No data available for mixture. Data for ingredients or related materials are presented.

Toxicity to fish Tylosin base: LC₅₀ / 96h / Rainbow Trout : >300 mg/L

LC₅₀ / 96h / Bluegill : >300 mg/L

Toxicity to algae Tylosin base: EC₅₀ /72h (growth)/ Pseudokirchneriella

subcapitata: 0.22 mg/L

Toxicity to daphnia Tylosin base: $EC_{50} / 48 \text{ h} / Daphnia magna} :>300$

mg/L

Toxicity to earthworms

Tylosin base: LC₅₀ / 14d / Earthworm: >102.6 mg/kg

Toxicity to birds Tylosin base

Tylosin base: LC_{50} / 14d oral / Bobwhite : >2000 mg/kg

 LC_{50} / 5d dietary / Bobwhite : >5000 ppm LC_{50} / 5d dietary / Mallard : >5000 ppm

Any other relevant information available

Tylosin base: Seedling median effective concentration

(growth): 43 mg/kg (tomato); 53 mg/kg

(soybean); 140 mg/kg (oat)

Water Solubility (g/L): 5

Kow (pH 5, 7, 9): 5, 17, 17

Koc: 200 (sandy loom, pH 4.6); 1652 (silt loom, pH 5.7); 2233 (sandy loom;

pH 7.6)

UV-visible light absorption (nm): 282 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

Section 13 - Disposal Considerations

Preferably dispose of product by use. Otherwise dispose of product as part of an approved chemical disposal program. Dispose of packaging at an approved landfill facility.

Section 14 - Transport Information

Land TransportNot regulatedAir TransportNot regulatedSea TransportNot regulatedUN NumberNot assignedProper Shipping NameNot assignedDG ClassNot assignedSubsidiary RiskNot assigned

Packing Group The packaging for this substance must

conform to the packaging requirements as specified in Schedule 4 of the Hazardous Substances (Packaging) Regulations 2001

(PS4).

HAZCHEM Code 3Z **Marine Pollutant** No

The maximum quantity of this substance allowed for carriage on public transport is 0.5L.

Section 15 - Regulatory Information

Tylan 200 for Injection is approved pursuant to the ACVM Act 1997 (A907). See www.foodsafety.govt.nz for registration conditions.

A Safety Data Sheet must be provided whenever 1L of Tylan 200 for Injection is sold or supplied.

Section 16 – Other Information

This SDS is effective as of 20 September 2011.

Sections updated or Formatting of entire document. ACVM website

revised: updated.

Due for revision within 5 years.

Further information

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.

For additional information contact: Elanco Animal Health 0800 352 626