

**1. IDENTIFICATION**

Product Identifier  
Distributor Name  
Distributor Address

Tylosin  
TOKU-E Company  
715 W Orchard Dr, Suite 3  
Bellingham, WA 98225

Phone Number  
Emergency Phone Number (International)  
Emergency Phone Number (US only)  
CAS-No.  
EC/ REACH Number  
Recommended Use  
Restrictions on Use

(360) 734-1789  
+1 (352) 323-3500  
1 (800) 535-5053  
[1401-69-0]  
[215-754-8]  
Broad-spectrum bacteriostatic macrolide antibiotic  
Not for human or animal use

**2. HAZARD(S) IDENTIFICATION**

GHS Classification

Respiratory sensitization (Category 1)  
Skin sensitization (Category 1)  
Acute aquatic toxicity (Category 1)

GHS Label Elements, Including  
Precautionary statements



Hazard Statements  
Precautionary Statements

Danger  
H317: May cause an allergic skin reaction  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H400: Very toxic to aquatic life  
P261: Avoid breathing dust/ fumes/ gas/ mist/ vapors/ spray  
P272: Contaminated work clothing should not be allowed out of the workplace  
P273: Avoid release into the environment  
P280: Wear protective gloves  
P285: In case of inadequate ventilation, wear respiratory protection  
P302 + P352: IF ON SKIN: Wash with plenty of soap and water  
P304 + P341: IF INHALED: If breathing is difficult,

Hazards not otherwise classified (HNOC)  
by GHS

remove victim to fresh air and keep at rest in a position comfortable for breathing  
P321: Specific treatment (see supplemental first aid instructions)  
P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention  
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician  
P363: Wash contaminated clothing before reuse  
P391: Collect spillage  
P501: Dispose of contents/ container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula  
Molecular Weight  
CAS-No.  
EC-No.  
Index-No.  
Hazardous components

$C_{46}H_{77}NO_{17}$   
916.10 g/mol  
[8026-48-0]  
[215-754-8]  
Not available  
Tylosin  
Respiratory sensitization (Category 1)  
Skin sensitization (Category 1)  
Acute aquatic toxicity (Category 1)  
Concentration: 90-100%

### 4. FIRST-AID MEASURES

General Advice

Consult a physician. Show this Safety Data Sheet to the medical provider

If Inhaled

If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a doctor

In Case of Skin Contact

Wash thoroughly with plenty of soap and water. Consult a doctor

In Case of Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes

If Swallowed

Never give anything by mouth to an unconscious person. Consult a doctor. Rinse mouth with water. Please see Section 2 and/or Section 11

Most important symptoms and effects, both acute and delayed  
Indication of any immediate medical attention and special treatment needed

No data available

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

Special Protective Equipment for Firefighters  
Hazardous Combustion Products

Wear self-contained breathing apparatus  
Formed under fire conditions: Carbon and Nitrogen oxides

## 6. ACCIDENTAL RELEASE MEASURES

General

Personal Precautions

Evacuate personnel to safe location  
Wear respiratory protection. Avoid dust formation and breathing vapors/mist/dust/gas. Ensure adequate ventilation

Environmental Precautions

Methods of Containment and Cleanup

Prevent spillage, do not let product enter drains  
Place in suitable, closed containers for licensed disposal. Avoid dust formation

## 7. HANDLING AND STORAGE

Precautions for Safe Handling

Precautions for Safe Storage

Avoid contact with skin and eyes. Provide exhaust ventilation in areas where dust if formed  
Keep container tightly closed and in a dry, well-ventilated place. Recommended storage temperature: 2-8°C  
None known

Incompatibilities

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Contains no substances with occupational exposure limit values

PPE: Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

PPE: Hand Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands

PPE: Eye Protection

Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

PPE: Skin and Body Protection

Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at

the work place. When deemed needed according to the concentration and amount of this product, use a complete body suit

## 9. PHYSICAL/CHEMICAL PROPERTIES

Appearance	Powder
pH	No data available
Melting Point/Freezing Point	No data available
Boiling Point	No data available
Flash Point	No data available
Ignition Temperature	No data available
Autoignition Temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure	No data available
Density	No data available
Water Solubility	Slightly soluble
Solubility in Other Solvents	No data available
Partition Coefficient: n-octanol/water	No data available
Optical Rotation	No data available
Absorbance (290nm, 5% in H <sub>2</sub> O)	No data available
Water content (Loss on Drying)	No data available

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Materials to Avoid	Strong oxidizing agents
Hazardous Decomposition Products	Carbon and Nitrogen oxides formed under fire conditions

## 11. TOXICOLOGICAL INFORMATION

Oral LD <sub>50</sub>	<b>Rat: &gt;5,000 mg/kg</b> <b>Mouse: 10,000 mg/kg</b> <b>Dog: &gt;800 mg/kg</b> <b>Chicken: 2,122 mg/kg</b>
Inhalation LC <sub>50</sub>	No data available
Dermal LD <sub>50</sub>	No data available
Intraperitoneal LD <sub>50</sub>	<b>Rat: 600 mg/kg</b> <b>Mouse: 594 mg/kg</b> Remarks, Behavioral: Somnolence (general depressed activity). Convulsions or effect on seizure threshold
Intravenous LD <sub>50</sub>	<b>Rat: 600 mg/kg</b> <b>Mouse: 400 mg/kg</b>
Skin Corrosion/Irritation	No data available
Serious Eye Damage/ Eye Irritation	No data available

Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive Toxicity	No data available
Specific Target Organ Toxicity: Single Exposure (Globally Harmonized System)	May cause respiratory irritation
Specific Target Organ Toxicity: Repeated Exposure (Globally Harmonized System)	No data available
Aspiration Hazard	No data available
Potential Health Effects	See Section 2, Hazard(s) Identification
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated
Synergistic Effects	No data available
Additional Information	RTECS: Not available

**12. ECOLOGICAL INFORMATION**

Toxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
PBT and vPvB Assessment	No data available
Treat as if harmful if released into environment	

**13. DISPOSAL CONSIDERATIONS**

Product	Dispose of product through a licensed disposal company
Contaminated Packaging	Dispose of as unused product

**14. TRANSPORTATION INFORMATION**

DOT (US)	Not Dangerous Goods
IMDG	UN Number: 3077
	Class: 9
	Packing Group: III
	EMS-No. F-A, S-F

IATA

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tylosin)  
Marine Pollutant: Marine Pollutant  
Further information: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3 for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or >5kg for solids.  
UN Number: 3077  
Class: 9  
Packing Group: III  
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Tylosin)

## 15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know Components

Tylosin

CAS-No. [1401-69-0]

Revision Date: Not available

New Jersey Right to Know Components

Tylosin

CAS-No. [1401-69-0]

Revision Date: Not available

Tylosin B

CAS-No. [11032-98-7]

Revision Date: Not available

Tylosin C

CAS-No. [11049-15-3]

Revision Date: Not available

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause birth defects, cancer, or any other reproductive harm  
MSDS in accordance with REACH 1907/2006

EU Information

EC Number [215-754-8]

CAS-No. [1401-69-0]

Name: Tylosin

Envisaged Registration Deadline: 30/11/2010

See GHS Information under Section 2, Hazard Identification

**16. OTHER INFORMATION**

Date of last revision: 2015-04-07

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TOKU-E Co. shall not be held liable for any damage resulting from handling or from contact with the above product. Please see reverse side of invoice or packing slip for additional terms and conditions of sale.