

## Safety Data Sheet

according to UK REACH Regulation

### Tylosin D (Relomycin)

Revision date: 19.03.2026

Product code: OP271

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Tylosin D (Relomycin)

#### Further trade names

(11E,13E)-6-[5-(4,5-dihydroxy-4,6-dimethyloxan-2-yl)oxy-4-(dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy-16-ethyl-4-hydroxy-15-[(5-hydroxy-3,4-dimethoxy-6-methyloxan-2-yl)oxymethyl]-7-(2-hydroxyethyl)-5,9,13-trimethyl-1-oxacyclohexadeca-11,13-diene-2,10-dione

Substance name: Tylosin D (Relomycin)  
CAS No: 1404-48-4

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Reference standard for analysis.

### 1.3. Details of the supplier of the safety data sheet

Company name: WITEGA Laboratorien Berlin-Adlershof GmbH  
Street: James-Franck-Strasse 4  
Place: D-12489 Berlin  
Telephone: +493063922001      Telefax: +493063922007  
E-mail: witega@witega.de  
Internet: www.witega.de

### 1.4. Emergency telephone number:

+493063922001

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Resp. Sens. 1; H334  
Skin Sens. 1; H317  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

Signal word: Danger

Pictograms:



#### Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H401 Toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P273 Avoid release to the environment.

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- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Sum formula: C<sub>46</sub>H<sub>79</sub>NO<sub>17</sub>  
Molecular weight: 918.12 g/mol g/mol

#### Relevant ingredients

| CAS No    | Chemical name  |          |          | Quantity |
|-----------|--|----------|----------|----------|
|           | EC No  | Index No | REACH No |          |
|           | Classification (GB CLP Regulation)                             |          |          |          |
| 1404-48-4 | Tylosin D (Relomycin)  |          |          | 100 %    |
|           | Resp. Sens. 1, Skin Sens. 1, Aquatic Chronic 2; H334 H317 H411 |          |          |          |

Full text of H and EUH statements: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

##### After contact with skin

Remove contaminated, saturated clothing immediately. Subsequently wash off with: Water and soap

##### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention.  
Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

#### 4.2. Most important symptoms and effects, both acute and delayed

No data available

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Water spray jet. Foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic. In case of fire and/or explosion do not breathe fumes.

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#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **General advice**

Use personal protection equipment. Do not breathe gas/fumes/vapour/spray.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

#### **6.3. Methods and material for containment and cleaning up**

##### **Other information**

Take up dust-free and set down dust-free.

#### **6.4. Reference to other sections**

Disposal: see section 13

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

##### **Advice on general occupational hygiene**

Use personal protection equipment.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Avoid: UV-radiation/sunlight

##### **Further information on storage conditions**

storage temperature: 2-8°C

#### **7.3. Specific end use(s)**

none

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

#### **8.2. Exposure controls**

##### **Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

##### **Individual protection measures, such as personal protective equipment**

##### **Eye/face protection**

Eye glasses with side protection

##### **Hand protection**

Wear suitable gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

##### **Skin protection**

lab coat

##### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                   |
|---|-------------------|
| Physical state:   | solid             |
| Colour:   |                   |
| Melting point/freezing point:                             | 128-130 °C        |
| Boiling point or initial boiling point and boiling range: | No data available |
| Flammability:   | No data available |
| Lower explosion limits:                                   | No data available |
| Upper explosion limits:                                   | No data available |
| Flash point:  | No data available |
| Auto-ignition temperature:                                | No data available |
| Decomposition temperature:                                | No data available |
| pH-Value:   | No data available |
| Water solubility:   | No data available |

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

#### Other safety characteristics

Evaporation rate:

No data available

#### Further Information

none

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with : Oxidising agent, Alkali (lye), Etchant and acids

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Do not expose to temperatures exceeding 50 °C/122 °F.

### 10.5. Incompatible materials

Oxidising agent, Alkali (lye), Etchant and acids

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Based on available data, the classification criteria are not met.

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#### **Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### **Sensitising effects**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Tylosin D (Relomycin))

May cause an allergic skin reaction. (Tylosin D (Relomycin))

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### **STOT-single exposure**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Specific effects in experiment on an animal**

No data available

## SECTION 12: Ecological information

### **12.1. Toxicity**

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

No data available

### **12.2. Persistence and degradability**

No data available

### **12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

### **12.4. Mobility in soil**

No data available

### **12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### **12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

### **12.7. Other adverse effects**

No data available

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Dispose of waste according to applicable legislation.

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### **Contaminated packaging**

This material and its container must be disposed of as hazardous waste.

## SECTION 14: Transport information

### **Land transport (ADR/RID)**

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**14.1. UN number or ID number:**  
**14.2. UN proper shipping name:**  
**14.3. Transport hazard class(es):**  
**14.4. Packing group:**  
Hazard label:

UN 3077  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
9  
III  
9



Classification code: M7  
Special Provisions: 274 335 375 601  
Limited quantity: 5 kg  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 90  
Tunnel restriction code: -

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:**  
**14.2. UN proper shipping name:**  
**14.3. Transport hazard class(es):**  
**14.4. Packing group:**  
Hazard label:

UN 3077  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
9  
III  
9



Classification code: M7  
Special Provisions: 274 335 375 601  
Limited quantity: 5 kg  
Excepted quantity: E1

#### Marine transport (IMDG)

**14.1. UN number or ID number:**  
**14.2. UN proper shipping name:**  
**14.3. Transport hazard class(es):**  
**14.4. Packing group:**  
Hazard label:

UN 3077  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
9  
III  
9



Special Provisions: 274 335 966 967 969  
Limited quantity: 5 kg  
Excepted quantity: E1  
EmS: F-A, S-F

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:**  
**14.2. UN proper shipping name:**  
**14.3. Transport hazard class(es):**  
**14.4. Packing group:**  
Hazard label:

UN 3077  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
9  
III  
9



Special Provisions: A97 A158 A179 A197 A215

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|  |         |
|--|---------|
| Limited quantity Passenger:            | 30 kg G |
| Passenger LQ:                          | Y956    |
| Excepted quantity:                     | E1      |
| IATA-packing instructions - Passenger: | 956     |
| IATA-max. quantity - Passenger:        | 400 kg  |
| IATA-packing instructions - Cargo:     | 956     |
| IATA-max. quantity - Cargo:            | 400 kg  |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



#### 14.6. Special precautions for user

No transport as bulk according to IBC Code.

#### 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### National regulatory information

|                          |   |
|--------------------------|---|
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
| Water hazard class (D):  | 3 - highly hazardous to water   |

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### Abbreviations and acronyms

Resp. Sens: Respiratory sensitisation  
Skin Sens: Skin sensitisation  
Aquatic Chronic: Chronic aquatic hazard

#### Relevant H and EUH statements (number and full text)

|      |  |
|------|--|
| H317 | May cause an allergic skin reaction.                                       |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H401 | Toxic to aquatic life.   |
| H411 | Toxic to aquatic life with long lasting effects.                           |

#### Further Information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The substances are only for R&D. Do not use as a drug, in household or other applications.