# This SDS packet was issued with item:

078041040

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078041073 078041081



# **Baytril® 2.27% Injectable Solution**

Version 6.0 Revision Date 04/22/2015

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### **Product information**

**Product Name:** Baytril® 2.27% Injectable Solution

SDS Number: 122000007148

Use : veterinary medicine

Company

BAYER HEALTHCARE LLC Animal Health Division 12707 Shawnee Mission Parkway (West 63rd) Shawnee, KS 66216-1846 USA

(800) 633-3796

In case of emergency: (800) 422-9874

Chemtrec: (800) 424-9300

BAYER INFORMATION PHONE: (800) 633-3796

INTERNATIONAL: (703) 527-3887

#### 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

Colour: yellowish Form: liquid Odour: slight, Alcohol.

**GHS Classification:** 

Serious eye damage : Category 1

**GHS Label element:** 

Hazard pictograms :

TE

Signal word : Danger

**Hazard statements**: H318 Causes serious eye damage.

**Precautionary statements** : Prevention:

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P280 Wear protective gloves/ eye protection/ face protection.

#### **Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Ingredients:** 

Weight percent<br/>2.27%Components<br/>EnrofloxacinCAS-No.<br/>93106-60-6

1 - 5% n-butanol 71-36-3

#### 4. FIRST AID MEASURES

**General advice:** Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. Call a physician immediately.

**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Contact Number: Use the Bayer Emergency Number in Section 1

### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Fire may cause evolution of: Nitrogen oxides (NOx) Carbon

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oxides

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

**Further information:** Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

**Methods for cleaning up:** Cover spilt product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labelled, closable containers.

Additional advice: No special precautions required.

Further Accidental Release Notes

No special precautions required.

# 7. HANDLING AND STORAGE

#### Handling:

Industrial uses: Avoid formation of aerosol. Avoid contact with skin, eyes and clothing.

Industrial uses: Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

# Storage:

Storage temperature: > 32 °F (> 0 °C)

Do not freeze.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### n-butanol (71-36-3)

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Ceiling Limit Value and Time Period (if specified): 50 ppm, 150 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Skin designation: Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 100 ppm, 300 mg/m3

#### Respiratory protection:

Recommended Filter type: Organic vapor with prefilter

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#### Hand protection:

Chemically resistant gloves.

# Eye protection:

Safety glasses

### Other protective measures:

Wear suitable protective equipment.

Please consult label for end-user requirements.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid
Colour: yellowish
Odour: slight, Alcohol

Odour Threshold: No applicable information is available Melting point: No applicable information is available Boiling point/boiling range: No applicable information is available

Density: 0.95 - 1.05 g/cm<sup>3</sup>

Bulk density:

Vapour pressure:

Viscosity, dynamic:

Viscosity, kinematic:

No applicable information is available

Surface tension:

No applicable information is available

Miscibility with water:

No applicable information is available

Water solubility: soluble pH: 11.1 - 11.5

Relative density: No applicable information is available Partition coefficient: No applicable information is available Solubility(ies): No applicable information is available

Flash point: 127.04 °F (52.8 °C)

Flammability (solid, gas): Does not sustain combustion.

Comparable data on substance.

Ignition temperature: No applicable information is available Explosion limits: No applicable information is available

# 10. STABILITY AND REACTIVITY

Conditions to avoid: Do not allow product to come in contact with:

Exposure to light.

Heat

Protect from frost.

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Materials to avoid: Oxidizing agents

Hazardous reactions: None known.

#### Thermal decomposition:

No data available

# Hazardous decomposition products:

Nitrogen oxides (NOx), Carbon oxides

### Flammability (solid, gas):

Does not sustain combustion. Method: Comparable data on substance.

### Oxidizing properties:

No statements available.

## Impact sensitivity:

No data available

#### 11. TOXICOLOGICAL INFORMATION

### Other information on toxicity:

No data is available on the product itself.

#### Acute oral toxicity:

Acute toxicity estimate (ATE) > 2,000 mg/kg May be harmful if swallowed.

Method: Calculation method

Calculated for GHS Classification and Labelling.

### Acute inhalation toxicity:

Enrofloxacin

LC50 Rat: > 2.937 mg/l, 4 h

The substance or mixture has no acute inhalation toxicity

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

n-butanol

LC50 Rat: 8000 ppm, 4 h

### Acute dermal toxicity:

Enrofloxacin

LD50 Rabbit: > 2,000 mg/kg

n-butanol

LD50 Rabbit: 3,400 mg/kg

#### Skin irritation:

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Enrofloxacin Rabbit

Result: No skin irritation Method: OECD 404

n-butanol Rabbit

Result: Mild skin irritation Method: OECD 404

# Eye irritation:

Enrofloxacin Rabbit

Result: Mild eye irritation Method: OECD 405

n-butanol Rabbit

Result: Causes serious eye damage.

Method: OECD 405

### Sensitisation:

Enrofloxacin

Skin sensitization guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: Buehler Test

n-butanol

Skin sensitization guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: OECD 406

### Genotoxicity in vitro:

Enrofloxacin Ames test Result: negative

n-butanol Ames test Result: negative

Micronucleus test Result: negative

In vitro gene mutation study in mammalian cells (Hamster V79-cells)

Result: No evidence of a genotoxic effect.

Method: OECD 476

## Genotoxicity in vivo:

Enrofloxacin

Micronucleus test, Mouse

Result: No indication of clastogenic effects.

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n-butanol

Micronucleus test, Mouse

Result: No evidence of a genotoxic effect.

Method: OECD 474

#### Reproductive toxicity:

n-butanol

NOAEL: 2000 ppm

Result: Animal testing did not show any effects on fertility.

Method: OECD Test Guideline 416

#### Pharmaceutic effects:

Enrofloxacin Antibiotic

#### Carcinogenicity:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

## **Experience with human exposure:**

# **Components:**

71-36-3:

May cause skin irritation and/or dermatitis.

#### STOT - single exposure:

### **Components:**

71-36-3:

Assessment: May cause drowsiness or dizziness.

## STOT - repeated exposure:

No data available

## 12. ECOLOGICAL INFORMATION

#### General advice:

Do not allow to enter surface waters or groundwater. No data is available on the product itself.

#### Toxicity to fish:

Enrofloxacin

Acute Fish toxicity: LC0 > 10 mg/l

Test species: Salmo gairdneri Duration of test: 96 h

Acute Fish toxicity: LC0 > 9.6 mg/l

Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

n-butanol

Acute Fish toxicity: LC50 1,730 mg/l

Test species: Pimephales promelas (fathead minnow) Duration of test: 96 h

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### Toxicity to daphnia and other aquatic invertebrates:

Enrofloxacin EC0 > 10 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

n-butanol

EC50 1,983 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

#### Toxicity to bacteria:

Enrofloxacin EC0 0.003 mg/l

tested on: Pseudomonas putida

# Toxicity on soil-dwelling organisms

EnrofloxacinLC50 1000 ppm

Test species: Eisenia fetida (earthworms) Duration of test: 28 d

# **Biodegradability:**

n-butanol

98 %, 28 d rapidly biodegradable

Method: OECD 301 E

#### Photodegradation:

Enrofloxacin Water

half-life time (direct Photolysis): > 240 h

#### 13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

#### 14. TRANSPORT INFORMATION

# Land transport (CFR)

non-regulated

#### **US Sea transport (IMDG)**

non-regulated

## US Air transport (ICAO / IATA cargo aircraft only)

non-regulated

### US Air transport (ICAO / IATA passenger and cargo aircraft)

non-regulated

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International IATA non-regulated non-regulated

#### 15. REGULATORY INFORMATION

**US. Toxic Substances Control Act** This product is exempt from TSCA under Section 3

(2)(B)(vi) when used for pharmaceutical application.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

Components

None

SARA Section 311/312 Hazard

Exempt from SARA Section 311/312

Categories

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components

n-butanol Reportable quantity: 5000 lbs

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent Components CAS-No. 1 - 5% n-butanol 71-36-3

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous

Substances Lists

Weight percent Components CAS-No. 1 - 5% n-butanol 71-36-3

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating Hazardous

#### 16. OTHER INFORMATION

#### NFPA 704M Rating

Health	2
Flammability	0
Reactivity	0

122000007148

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0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

#### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.