



SAFETY DATA SHEET

122000007148

Baytril 2.27% Injectable Solution

Version 4.0

Revision Date 07/26/2010

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product Name: Baytril 2.27% Injectable Solution
MSDS Number: 122000007148

Company

BAYER HEALTHCARE LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtec: (800) 424-9300
BAYER INFORMATION PHONE: (800) 633-3796
INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION**Emergency Overview**

CAUTION! Combustible Liquid Colour: yellowish **Form:** liquid **Odour:** Slight, Alcohol.
Inhalation may cause nausea or dizziness. May cause respiratory tract irritation. May cause skin irritation.
May cause eye irritation.

Hazard Communication (29CFR 1910.1200)

Inhalation Skin Absorption Skin Contact Eye Contact

Acute Inhalation Hazards

May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose. Overexposure to vapor may produce dizziness, drowsiness, or nausea.

Acute Skin Hazards

May cause irritation with symptoms of reddening and itching.

Acute Eye Hazards

May cause irritation with symptoms of reddening, tearing and stinging.

Acute Ingestion Hazards

Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.

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Chronic Effects of Exposure

Chronic exposure to the solvent can cause defatting of the skin. Hearing loss has been associated with prolonged inhalation of butyl alcohol.

Medical Conditions Aggravated by Exposure

Eye disorders, Skin disorders, Respiratory tract disorders

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

3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous Ingredients:**

Weight percent	Components	CAS-No.
1 - 5%	Enrofloxacin	93106-60-6
1 - 5%	Butan-1-ol	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. FIRE-FIGHTING 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 fire fighting: Fire may cause evolution of: nitrogen oxides (NOx) Carbon

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oxides

Special protective equipment for fire-fighters: 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.

7. HANDLING AND STORAGE**Handling:**

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

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**Butan-1-ol (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

Hand protection:

Chemically resistant gloves.

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Eye protection:

Protective goggles

Other protective measures:Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	yellowish
Odour:	Slight Alcohol
Boiling point/boiling range:	no data available
Density:	0.95 - 1.05 g/cm3
Vapour pressure:	no data available
Viscosity, dynamic:	no data available
Miscibility with water:	no data available
Water solubility:	soluble
pH:	11.1 - 11.5
Partition coefficient (n-octanol/water):	no data available
Flash point:	127.04 °F (52.8 °C)
Ignition temperature:	not determined
Explosion limits:	
Explosion limits:	upper: 11.3 %(V) / lower: 1.4 %(V)

10. STABILITY AND REACTIVITY**Conditions to avoid:** Protect from frost.**Materials to avoid:** Oxidizing agents**Hazardous reactions:** None known.**Thermal decomposition:**

no data available

Hazardous decomposition products:nitrogen oxides (NO_x), Carbon oxides

11. TOXICOLOGICAL INFORMATION**Other information on toxicity:**

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No data is available on the product itself.

Acute oral toxicity:

Enrofloxacin

LD50 rat: > 5,000 mg/kg

Acute inhalation toxicity:

Butan-1-ol

LC50 rat: 8,000 mg/l

Skin irritation:

Enrofloxacin

rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

Eye irritation:

Enrofloxacin

rabbit

Result: Mild eye irritation

Method: OECD Test Guideline 405

Sensitisation:

Enrofloxacin

Skin sensitization guinea pig

Result: Did not cause sensitization on laboratory animals.

Method: Buehler Test

Genotoxicity in vitro:

Butan-1-ol

Ames test

Result: negative

Micronucleus test

Result: negative

Pharmaceutic effects:

Enrofloxacin

Antibiotic

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

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Acute Fish toxicity: LC0 > 9.6 mg/l

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

Butan-1-ol

Acute Fish toxicity: LC50 1,200 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 48 h

Acute Fish toxicity: LC50 1,730 mg/l

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

Toxicity to daphnia and other aquatic invertebrates:

Enrofloxacin

EC0 >= 10 mg/l

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

Butan-1-ol

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

13. DISPOSAL CONSIDERATIONS

When discarded in its purchased form, this product meets the criteria of ignitability, and should be managed as hazardous waste (EPA Hazardous Waste Number D001).

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

14. TRANSPORT INFORMATION**Land transport (DOT)**

Non-Regulated

Inland waterway transport

Non-Regulated

Railway transport

Non-Regulated

Sea transport (IMDG)

Non-Regulated

Air transport (ICAO / IATA cargo aircraft only)

Non-Regulated

Air transport (ICAO / IATA passenger and cargo aircraft)

Non-Regulated

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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 Categories Exempt from SARA Section 311/312

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

Butan-1-ol

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

Butan-1-ol Reportable quantity: 5000 lbs

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent	Components	CAS-No.
1 - 5%	Butan-1-ol	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%	Butan-1-ol	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	2
Reactivity	0
Other	0

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

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.