

SAFETY DATA SHEET  
**BAYTRIL 100**

122000007167

Version 2.0

Revision Date 02/23/2015

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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information****Product Name:** BAYTRIL 100

MSDS Number: 122000007167

**Use** : veterinary medicine unfinished**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

Chemtec: (800) 424-9300

BAYER INFORMATION PHONE: (800) 633-3796

INTERNATIONAL: (703) 527-3887

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**2. HAZARDS IDENTIFICATION****Emergency Overview**

**WARNING! Combustible Liquid Colour:** yellow, brownish **Odour:** weak, Alcohol.  
May cause eye, skin, and respiratory tract irritation.

**GHS Classification:****Eye irritation** : Category 2**GHS Label element:****Hazard pictograms** :**Signal word** : Warning**Hazard statements** : H319 Causes serious eye irritation.

**Precautionary statements**

**: Prevention:**

P264 Wash skin thoroughly after handling.

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.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous Ingredients:**

<b>Weight percent</b>	<b>Components</b>	<b>CAS-No.</b>
1 - 5%	n-butanol	71-36-3
10%	Enrofloxacin	93106-60-6
1 - 5%	Alcohol derivative	

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**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

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**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: Hydrogen cyanide (hydrocyanic acid) Hydrogen fluoride Nitrogen oxides (NOx) Carbon 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.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment. Use adequate ventilation.

**Methods for cleaning up:** Suppress (knock down) gases/vapours/mists with a water spray jet. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in closed containers. Label for proper disposal.

**Additional advice:** No special precautions required.

**Further Accidental Release Notes**      No special precautions required.

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## 7. HANDLING AND STORAGE

**Handling:**

Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing. Do not refrigerate.

**No special protective measures against fire required.**

**Storage:**

Keep away from direct sunlight.

Storage temperature: < 104 °F (< 40 °C)

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## 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/m<sup>3</sup>

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/m<sup>3</sup>

**Alcohol derivative**

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides  
Time Weighted Average (TWA): 10 ppm, 44.20 mg/m<sup>3</sup>

**Respiratory protection:**

Recommended Filter type: Organic vapor with prefilter

**Hand protection:**

Chemically resistant gloves.

**Eye protection:**

Safety glasses

**Other protective measures:**

Wear suitable protective equipment.

Please consult label for end-user requirements.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:	No applicable information is available
Colour:	yellow, brownish
Odour:	weak, 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:	1.08 g/cm <sup>3</sup> at 68 °F (20 °C)
Bulk density:	No applicable information is available
Vapour pressure:	No applicable information is available
Viscosity, dynamic:	No applicable information is available
Viscosity, kinematic:	No applicable information is available
Flow time:	No applicable information is available
Surface tension:	No applicable information is available
Miscibility with water:	completely miscible
Water solubility:	No applicable information is available
pH:	8.9 - 10.9 at ( 68 °F (20 °C)) (undiluted)
Relative density:	No applicable information is available
Partition coefficient:	No applicable information is available
Solubility(ies):	No applicable information is available
Flash point:	145 °F (62.78 °C)
Flammability (solid, gas):	No applicable information is available
Ignition temperature:	No applicable information is available
Explosion limits:	No applicable information is available

DIN 51757

## 10. STABILITY AND REACTIVITY

**Conditions to avoid:** Do not allow product to come in contact with:  
Exposure to light.

**Materials to avoid:** Oxidizing agents

**Hazardous reactions:** No data available

**Thermal decomposition:**

No data available

**Hazardous decomposition products:**

Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Nitrogen oxides (NO<sub>x</sub>), Carbon oxides

**Oxidizing properties:**

No statements available.

**Impact sensitivity:**

No data available

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## 11. TOXICOLOGICAL INFORMATION

**Other information on toxicity:**

n-butanol

Liver and kidney injuries may occur.

After absorption of large quantities Dizziness, Liver disorders, drowsiness, headaches, Weakness

**Other information on toxicity:**

Alcohol derivative

Dermal absorption possible

If inhaled: irritations, Shortness of breath, Cough

If swallowed: Vomiting, Nausea, Irritation of mucous membranes in the mouth, throat, gullet and gastro-intestinal tract after swallowing.

Systemic toxicity headaches, Nausea, CNS disorders, Convulsions, Unconsciousness, cessation of breathing

**Acute oral toxicity:**

n-butanol

LD50 Rat: 790 mg/kg

Alcohol derivative

LD50 Rat: 1,230 mg/kg

Enrofloxacin

LD50 Rat: > 5,000 mg/kg

The substance or mixture has no acute oral toxicity

**Acute inhalation toxicity:**

n-butanol

LC50 Rat: 8000 ppm, 4 h

Alcohol derivative

Harmful if inhaled.

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.

**Acute dermal toxicity:**

n-butanol

LD50 Rabbit: 3,400 mg/kg

Alcohol derivative

LD50 Rabbit: > 2,000 mg/kg

Enrofloxacin

LD50 Rabbit: > 2,000 mg/kg

**Skin irritation:**

n-butanol

Rabbit

Result: Mild skin irritation

Method: OECD 404

Alcohol derivative

Rabbit

Result: No skin irritation

Method: OECD 404

Enrofloxacin

Rabbit

Result: No skin irritation

Method: OECD 404

**Eye irritation:**

n-butanol

Rabbit

Result: Causes serious eye damage.

Method: OECD 405

Alcohol derivative

Rabbit

Result: No eye irritation

Method: OECD 405

Enrofloxacin  
Rabbit  
Result: Mild eye irritation  
Method: OECD 405

**Sensitisation:**

n-butanol  
Skin sensitization guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
Method: OECD 406

Alcohol derivative  
guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
Method: Magnusson and Kligmann maximization test

Enrofloxacin  
Skin sensitization guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
Method: Buehler Test

**Subacute, subchronic and prolonged toxicity:**

Alcohol derivative  
NOEL 400 mg/kg, Rat, Exposure time 90-day

**Genotoxicity in vitro:**

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

Alcohol derivative  
Ames test  
Result: negative

Enrofloxacin  
Ames test  
Result: negative

**Genotoxicity in vivo:**

n-butanol  
Micronucleus test, Mouse  
Result: No evidence of a genotoxic effect.  
Method: OECD 474

Alcohol derivative  
Result: No indication of mutagenic effects.

Enrofloxacin  
Micronucleus test, Mouse  
Result: No indication of clastogenic effects.

**Reproductive toxicity:**

n-butanol  
NOAEL: 2000 ppm  
Result: Animal testing did not show any effects on fertility.  
Method: OECD Test Guideline 416

**Teratogenicity:**

Alcohol derivative  
Result: Did not show teratogenic effects in animal experiments.

**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.

**100-51-6 :**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure:**

**Components:**

**100-51-6 :**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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**12. ECOLOGICAL INFORMATION**

**General advice:**

Do not allow to enter surface waters or groundwater.



**Toxicity to fish:**

n-butanol

Acute Fish toxicity: LC50 1,730 mg/l

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

Alcohol derivative

Acute Fish toxicity: LC50 10 mg/l

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

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

**Toxicity to daphnia and other aquatic invertebrates:**

n-butanol

EC50 1,983 mg/l

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

Alcohol derivative

EC50 55 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 24 h

Enrofloxacin

EC0 > 10 mg/l

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

**Toxicity to algae:**

Alcohol derivative

IC50 > 100 mg/l

Duration of test: 72 h

**Toxicity to bacteria:**

Alcohol derivative

EC50 71.4 mg/l

tested on: Photobacterium phosphoreum

Duration of test: 0.5 h

Enrofloxacin

EC0 0.003 mg/l

tested on: Pseudomonas putida

**Toxicity on soil-dwelling organisms**

Enrofloxacin LC50 1000 ppm

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

**Biodegradability:**

n-butanol

98 %, 28 d rapidly biodegradable

Method: OECD 301 E

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Alcohol derivative  
92 - 96 %, 28 d rapidly biodegradable  
Method: OECD 301 C

**Photodegradation:**

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

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**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.

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**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

<u>International IATA</u>	non-regulated
IMDG	non-regulated

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**15. REGULATORY INFORMATION**

**Other regulations:** No statements available.

**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

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**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

1 - 5%      Alcohol derivative

**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**

<b>Health</b>	2
<b>Flammability</b>	2
<b>Reactivity</b>	0
<b>Other</b>	

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.

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