



MATERIAL SAFETY DATA SHEET

Baytril 100mg Inj

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

TRANSPORTATION EMERGENCY
CALL CHEMTREC..... : (800) 424-9300
INTERNATIONAL : (703) 527-3887

NON-TRANSPORTATION
BAYER EMERGENCY PHONE : (877) 258-2280
BAYER INFORMATION PHONE: (800) 633-3796

Section 1: Product and Company Identification

Product Name: BAYTRIL 100
Material Number: 8711278
Chemical Family: Antimicrobial - Quinoline Compound
Chemical Name: 1-cyclopropyl-7-(4-ethyl-1-piperazinyl) -6-fluoro-1,4-dihydro-4-oxo-3-quinoline carboxylic acid
Synonyms: Enrofloxacin
Formula: Mixture

Section 2: Composition/Information on Ingredients

HAZARDOUS INGREDIENTS

<u>Ingredient Name/ CAS Number</u>	<u>Exposure Limits</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Enrofloxacin 93106-60-6	OSHA (PEL): Not Established ACGIH (TLV): Not Established		10%
1-Butanol 71-36-3	OSHA (PEL): 100.00 ppm TWA 300.00 mg/m3 TWA ACGIH (TLV): 50.00 ppm CEIL Skin 152.00 mg/m3 CEIL Skin	1%	5%

Aromatic alcohol
Specific chemical identity is withheld as a trade
secret

OSHA (PEL):
Not Established
ACGIH (TLV):
Not Established

1%

5%

Section 3: Hazards Identification

EMERGENCY OVERVIEW

CAUTION! Combustible. **Color:** Pale yellow **Form:** Liquid **Odor:** Slight, Alcohol
May cause eye, skin, and respiratory tract irritation.

POTENTIAL HEALTH EFFECTS

Route(s) of Entry: Inhalation, Skin Contact, Skin Absorption, Eye Contact

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation Hazards

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.

Skin Hazards

Acute Skin Hazards: May cause irritation with symptoms of reddening and itching.

Eye Hazards

Acute Eye Hazards: May cause irritation with symptoms of reddening, tearing and stinging.

Ingestion Hazards

Acute Ingestion Hazards: Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.

General Effects of Exposure

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.

Carcinogenic Components:

NTP: None

IARC: None

OSHA: None

Medical Conditions

Aggravated by Exposure: Eye disorders, Skin disorders, Respiratory tract disorders

Section 4: First Aid Measures

First Aid for Eye:	Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops or persists.
First Aid for Skin:	In case of skin contact, wash affected areas with soap and water. Contact a physician if irritation develops.
First Aid for Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. Call a physician.
First Aid for Ingestion:	Contact a physician or Poison Control Center. If ingested, do not induce vomiting unless directed to do so by medical personnel.
Note to Physician:	In case of human or animal poisoning, please contact the poison control center at (800) 414-0244. Please also notify Bayer at (877) 258-2280.

Section 5: Fire Fighting Measures

Flash Point:	145 °F
Flammable Limits:	
Upper Explosion Limit (UEL %):	Not Established
Lower Explosion Limit (LEL %):	Not Established
Extinguishing Media:	
Suitable:	Water, Carbon Dioxide, Foam
Special Fire Fighting Procedures:	Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Do not allow fire fighting water to enter sewer, surface waters, or ground water systems.

Section 6: Accidental Release Measures

Spill or Leak Procedures:	Use appropriate personal protective equipment during clean up. Recover uncontaminated product, if possible. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Collect and place in appropriately marked sealable containers for disposal. Wash spill area with soap and water. Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.
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Section 7: Handling and Storage

Storage Temperature:	Room Temperature
Shelf Life:	See expiration date on product label
Special Sensitivity:	Protect from freezing. Do not expose to direct sunlight.
Handling/Storage Precautions:	Store in a dry place in original or waterproof containers. Store separate from food products. Store containers in an upright position. Avoid contact with eyes. Avoid contact with skin or clothing. Do not refrigerate.

Section 8: Exposure Controls/Personal Protection

Personal Protection Equipment

Eye Protection Requirements:	Chemical safety goggles or glasses.
Skin Protection Requirements:	Gloves, long sleeved shirts and pants.
Ventilation Requirements:	Use local and general exhaust ventilation to control levels of exposure.
Respirator Requirements:	A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure.
Additional Protective Measures:	Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions. Launder clothing separately after use. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Section 9: Physical and Chemical Properties

Physical Form:	Liquid
Color:	Pale yellow
Odor:	Slight, Alcohol
pH:	8.9 - 10.9
Boiling Point:	Not Established
Melting/Freezing Point:	Not Established
Specific Gravity:	1.07 - 1.09
Bulk Density:	Not Established
Percent Volatile by Volume:	78
Vapor Pressure:	Not Established
Vapor Density:	Not Established

Section 10: Stability and Reactivity

Stability:	Stable
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Hazardous Polymerization: Will not occur
Substances to Avoid: Not established
Conditions to Avoid: Not established
Decomposition Products: Carbon monoxide, Carbon Dioxide, Oxides of Nitrogen, Other potentially toxic fumes, Ammonia

Section 11: Toxicological Information

Toxicity Data for BAYTRIL 100

Toxicity Note: No data available for this product.

Toxicity Data for Enrofloxacin

Acute oral toxicity: LD50 => 5,000 mg/kg bw (Rat)
Acute dermal toxicity: LD50 => 2,000 mg/kg bw (Rabbit)
Acute inhalation toxicity: > 3,547 mg/kg bw, (Rat)
Eye Irritation: Moderately irritating (Rabbit)
Skin Irritation: Non-irritating (Rabbit)
Sensitization: non-sensitizer (Guinea pig)
Repeated Dose Toxicity: Dog: NOEL = 3 mg/kg
Mutagenicity: Suspect mutagen.
Developmental Toxicity/Teratogenicity: Rabbit: NOEL = 25 mg/kg
Toxicity to Reproduction/Fertility: Rat: NOEL = 10 mg/kg

Section 12: Ecological Information

Ecological Data for BAYTRIL 100

Ecological Note: No data available for this product.

Ecological Data for Enrofloxacin

Fish Toxicity: 150 mg/L, Golden orfe (*Leuciscus idus*)
10 mg/L, 96 hrs. Rainbow trout (*Salmo gairdneri*)
10 mg/L, 96 hrs. Bluegill (*Lepomis macrochirus*)
Invertebrate Toxicity: 100 mg/L, 24 hrs. Water flea (*Daphnia magna*)

Section 13: Disposal Considerations

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

Section 14: Transportation Information

Technical shipping name: Animal drugs and medicines

Freight Class

Bulk: Drugs and Medicines
Package: Drugs and Medicines

Domestic Surface Transportation (DOT)

Hazard Class or Division: Non-Regulated

Marine Transportation (IMO / IMDG)

Hazard Class Division Non-Regulated
Number:

Air Transportation (ICAO / IATA)

Hazard Class Division Non-Regulated
Number:

Section 15: Regulatory Information

United States Federal Regulations

OSHA Hazcom Standard Rating: Hazardous

TSCA Inventory List: This product is exempt from TSCA Regulation under Section 3 (2)(B)(vi) when used for pharmaceutical application.

CERCLA Hazardous Substance:

<u>Component(s)</u>	<u>Reportable Quantity</u>
1-Butanol	5,000 lb

SARA Title III

SARA Section 302 Extremely Hazardous Substances:

<u>Component(s)/</u>	<u>Concentration</u>	
<u>CAS Number</u>	<u>Min.</u>	<u>Max.</u>
Exempt		

SARA Section 311/312 Hazard Categories: Exempt from SARA Section 311/312

Indicates Relevant Change Made.

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Contact: John Sheehan
 Phone: (913) 268-2570
 MSDS Number: R15974
 Version Date: 06/11/2004
 MSDS Version: 1.18

BAYER HEALTHCARE LLC's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by BAYER HEALTHCARE LLC as a customer service.

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

Health	2
Flammability	2
Reactivity	0
Other	

NFPA 704M Rating

Section 16: Other Information

State Code Translation Table

Component(s)/CAS Number	State Code	Min. Concentration	Max. Concentration
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State Right-to-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

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)

RCRA Status:

Component(s)/CAS Number	Reporting Threshold	Min. Concentration	Max. Concentration
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SARA Section 313 Toxic Chemicals:

Exempt