## **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078945034

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

078945032



According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Fluroxin (Enrofloxacin) 2.27% Injection for Dogs

#### **SECTION 1: Identification**

#### **Product Identifier**

Product Name: Fluroxin (Enrofloxacin) 2.27% Injection for Dogs

**Product code:** 21306485, 21306486, 21306487

#### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** Enroflox® (enrofloxacin) Injection for Dogs 2.27% indicated for the management of diseases in dogs associated with bacteria susceptible to enrofloxacin.

**Uses Advised Against:** Not determined or not applicable.

Reasons Why Uses Advised Against: Not determined or not applicable.

## **Manufacturer or Supplier Details**

# Supplier:

United States

Aspen Veterinary Resources, LTD. 3155 W. Heartland Drive Liberty, MO 64068 1-800-792-1238

## **Emergency Telephone Number:**

#### **United States**

CHEMTREC

Within USA and Canada: 1-800-424-9300 (24 hours)
Outside USA and Canada: +1-703-527-3887 (24 hours)

## SECTION 2: Hazard(s) Identification

## **GHS Classification:**

Acute toxicity (oral), category 4
Serious eye damage, category 1
Respiratory sensitization, category 1
Skin sensitization, category 1

## **Label elements**

#### **Hazard Pictograms:**







Signal Word: Danger

# Hazard statements:

H318 Causes serious eye damage

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 May cause an allergic skin reaction

H302 Harmful if swallowed

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#### Fluroxin (Enrofloxacin) 2.27% Injection for Dogs

#### **Precautionary Statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection

P261 Avoid breathing vapors.

P284 Wear respiratory protection

P272 Contaminated work clothing must not be allowed out of the workplace

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

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.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 Rinse mouth

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P342+P311 If experiencing respiratory symptoms: Call a poison center or doctor.

P302+P352 IF ON SKIN: Wash with plenty of water/soap

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P363 Wash contaminated clothing before reuse

P321 Specific treatment (see Sections 4 - 8 of this SDS and any supplemental information on the product label)

P501 Dispose of contents/container in accordance with local, regional, national, and international regulations.

## Hazards Not Otherwise Classified: None

#### Supplemental label elements:

0 percent of the mixture consists of ingredient(s) of unknown acute oral toxicity

## **SECTION 3: Composition/Information on Ingredients**

Identification	Name	Weight %
CAS Number: 71-36-3	n-Butanol	3
CAS Number: 93106-60-6	1-Cyclopropyl-7-(4-ethyl-1-piperazinyl)-6-fluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid	2.27
CAS Number: 1310-58-3	Potassium hydroxide	0

## Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

## **SECTION 4: First Aid Measures**

## **Description of First Aid Measures**

#### **General Notes:**

Show this Safety Data Sheet to the doctor in attendance. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

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## Fluroxin (Enrofloxacin) 2.27% Injection for Dogs

#### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

#### After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

## **After Eye Contact:**

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

#### **After Swallowing:**

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

## Most Important Symptoms and Effects, Both Acute and Delayed

#### **Acute Symptoms and Effects:**

Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Inhalation exposure may cause allergy, asthma symptoms or breathing difficulties. Symptoms may include cough, chronic phlegm, shortness of breath, wheezing and chest tightness. Symptoms may be delayed.

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

#### **Delayed Symptoms and Effects:**

Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of exposure may be delayed.

## **Immediate Medical Attention and Special Treatment**

## **Specific Treatment:**

In case of eye contact, seek prompt medical attention while rinsing is continued.

## **Notes for the Doctor:**

Treat symptomatically.

## **SECTION 5: Firefighting Measures**

## **Extinguishing Media**

## **Suitable Extinguishing Media:**

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

#### **Unsuitable Extinguishing Media:**

Do not use water jet.

#### Specific Hazards During Fire-Fighting:

Thermal decomposition may produce hazardous combustion products: carbon oxides (CO, CO2), nitrogen oxides

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#### Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

#### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

## **SECTION 6: Accidental Release Measures**

## Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

#### **Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

## Methods and Material for Containment and Cleaning Up:

Harmful if swallowed. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

#### **Reference to Other Sections:**

For personal protective equipment see Section 8. For disposal see Section 13.

## **SECTION 7: Handling and Storage**

## **Precautions for Safe Handling:**

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Do not get in eyes. Avoid contact with skin and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Store below 25 °C.

#### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

## **SECTION 8: Exposure Controls/Personal Protection**

Only those substances with limit values have been included below.

## Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	n-Butanol		TLV-TWA: 20 ppm (8-Hour Exposure Limit)
	Potassium hydroxide	1310-58-3	Ceiling Limit: 2 mg/m³
NIOSH	n-Butanol	71-36-3	Ceiling Limit: 50 ppm (150 mg/m³)
	n-Butanol	71-36-3	IDLH: 1400 ppm
	Potassium hydroxide	1310-58-3	Ceiling Limit: 2 mg/m³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
OSHA	n-Butanol		8-Hour TWA-PEL: 100 ppm (300 mg/m³)
	n-Butanol	71-36-3	Ceiling Limit: 50 ppm (150 mg/m³)
	Potassium hydroxide	1310-58-3	Ceiling Limit: 2 mg/m³
United States(California)	n-Butanol	71-36-3	Ceiling Limit: 50 ppm (150 mg/m3)
	Potassium hydroxide	1310-58-3	Ceiling Limit: 2 mg/m³

## **Biological Limit Values:**

No biological exposure limits noted for the ingredient(s).

## **Information on Monitoring Procedures:**

Not determined or not applicable.

## **Appropriate Engineering Controls:**

Not determined or not applicable.

## **Personal Protection Equipment**

### **Eye and Face Protection:**

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Do not wear contact lenses when using or handling this product.

## **Skin and Body Protection:**

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Full body protection should be worn. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### **Respiratory Protection:**

In case of insufficient ventilation, wear suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear a properly fitted, air-purifying or air-fed respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and Chemical Properties

#### Information on Basic Physical and Chemical Properties

Appearance	Clear solution
Odor	Not determined or not available.
Odor threshold	Not determined or not available.

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рН	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

## **SECTION 10: Stability and Reactivity**

## Reactivity:

Not reactive under recommended handling and storage conditions.

## **Chemical Stability:**

Stable under recommended handling and storage conditions.

## **Possibility of Hazardous Reactions:**

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

#### **Conditions to Avoid:**

Direct sunlight, extremely high or low temperatures, hot surfaces, sparks, ignition sources and incompatible materials.

## **Incompatible Materials:**

Strong acids, strong bases, strong oxidizers.

## **Hazardous Decomposition Products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological Information**

## **Acute Toxicity**

#### **Assessment:**

Harmful if swallowed.

Product Data: No data available.

**Substance Data:** 

Name	Route	Result
1		

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Name	Route	Result
n-Butanol	oral	LD50 Rat: 790 mg/kg
	dermal	LD50 Rabbit: 3400 mg/kg
1-Cyclopropyl-7-(4-ethyl-1- piperazinyl)-6-fluoro-1,4- dihydro-4-oxo-3- quinolinecarboxylic acid	oral	LD50 Rabbit: 500 mg/kg
Potassium hydroxide	oral	LD50 Rat: 273 mg/kg

#### **Skin Corrosion/Irritation**

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

**Product Data:** No data available. **Substance Data:** 

Name	Result
n-Butanol	Causes skin irritation.
Potassium hydroxide	Causes severe skin burns.

## **Serious Eye Damage/Irritation**

#### Assessment:

Causes serious eye damage.

#### **Product Data:**

No data available.

#### **Substance Data:**

Name	Result
n-Butanol	Causes serious eye damage.
Potassium hydroxide	Causes serious eye damage.

## **Respiratory or Skin Sensitization**

#### **Assessment:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

#### **Product Data:**

No data available.

## **Substance Data:**

Name	Result
1-Cyclopropyl-7-(4-ethyl-1-piperazinyl)-6-fluoro-1,4-	May cause an allergic skin reaction.
dihydro-4-oxo-3- quinolinecarboxylic acid	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## Carcinogenicity

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

Product Data: No data available. Substance Data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

**OSHA Carcinogens:** Not applicable

**Germ Cell Mutagenicity** 

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## Fluroxin (Enrofloxacin) 2.27% Injection for Dogs

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

**Product Data:** No data available.

Substance Data: No data available.

**Reproductive Toxicity** 

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

**Product Data:** No data available.

Substance Data: No data available.

## **Specific Target Organ Toxicity (Single Exposure)**

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

**Product Data:** No data available. **Substance Data:** 

Name	Result
n-Butanol	May cause drowsiness or dizziness
	May cause respiratory irritation.

## Specific Target Organ Toxicity (Repeated Exposure)

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

**Product Data:** No data available.

Substance Data: No data available.

Aspiration toxicity

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

**Product Data:** No data available.

Substance Data: No data available. Information on Likely Routes of Exposure:

Skin contact, eye contract, inhalation and ingestion.

## Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

See section 4 of this SDS.

Other Information:

No data available.

## **SECTION 12: Ecological Information**

#### Acute (Short-Term) Toxicity

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

Product Data: No data available.

#### Substance Data

Substance Bata.		
Name	Result	
n-Butanol	Aquatic Plants EC50 Green algae: 225 mg/L (96 Hours)	
	Aquatic Invertebrates EC50 Daphnia magna: 1328 mg/L (48 Hours)	
	Fish LC50 Pimephales promelas: 1376 mg/L (96 Hours)	
1-Cyclopropyl-7-(4-ethyl-1- piperazinyl)-6-fluoro-1,4- dihydro-4-oxo-3- quinolinecarboxylic acid	Aquatic Invertebrates EC50 Penaeus vannamei: 0.0143 mg/L (48 hr)	

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## Fluroxin (Enrofloxacin) 2.27% Injection for Dogs

## **Chronic (Long-Term) Toxicity**

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

**Product Data:** No data available.

**Substance Data:** 

Name	Result
n-Butanol	Aquatic Invertebrates NOEC Daphnia magna: 4.1 mg/L (21 Days)

## **Persistence and Degradability**

Product Data: No data available.

#### **Substance Data:**

Name	Result
n-Butanol	The substance is readily biodegradable (> 92% degradation in 28 days).
7	The study on degradability does not need to be conducted as the substance is inorganic.

## **Bioaccumulative Potential**

Product Data: No data available.

#### **Substance Data:**

Name	Result
n-Butanol	The substance is not expected to bioaccumulate (BCF: 3.16 L/Kg).
1-Cyclopropyl-7-(4-ethyl-1- piperazinyl)-6-fluoro-1,4- dihydro-4-oxo-3- quinolinecarboxylic acid	Bioaccumulation is not to be expected (predicted BCF: 8.75 L/kg).
Potassium hydroxide	Not expected to bioaccumulate, as it completely dissociates in water.

## **Mobility in Soil**

Product Data: No data available.

## **Substance Data:**

Name	Result
n-Butanol	The substance is highly mobile (Log Koc: 0.54).
1-Cyclopropyl-7-(4-ethyl-1- piperazinyl)-6-fluoro-1,4- dihydro-4-oxo-3- quinolinecarboxylic acid	The substance is expected to be moderately mobile with some potential for adsorption into soil (predicated Koc: 481)
Potassium hydroxide	Low potential for adsorption. If emitted to surface water, sorption to sediment will be negligible.

#### Results of PBT and vPvB assessment

## **Product Data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT. **vPvB** assessment: This product does not contain any substances that are assessed to be a vPvB.

#### **Substance Data:**

#### PBT assessment:

n-Butanol	The substance is not PBT.
Potassium hydroxide	The substance is not PBT.
vPvB assessment:	
n-Butanol	The substance is not vPvB.
Potassium hydroxide	The substance is not vPvB.

Other Adverse Effects: No data available.

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#### **SECTION 13: Disposal Considerations**

## **Disposal Methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

#### Contaminated packages:

Contaminated sharps should be handled with care and discarded immediately or as soon as possible in containers that are closable, puncture-resistant, leak proof on sides and bottoms, and appropriately labeled. Contact your local health department for referral to a syringe disposal program. Do not reuse container.

## **SECTION 14: Transport Information**

## United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

## International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

## International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

## SECTION 15: Regulatory Information

## **United States Regulations**

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

## **SARA Section 313 Toxic Chemicals:**

71-36-3	n-Butanol	Listed

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#### **CERCLA:**

	71-36-3	n-Butanol	Listed	5000
	1310-58-3	Potassium hydroxide	Listed	1000 lb
RCI	RCRA:			

#### RCRA:

/1-30-3   II-Dutation	71-36-3	n-Butanol	Listed	U031
	171-36-3 lı	n-Butanol	Listed	IU031

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

## Massachusetts Right to Know:

71-36-3	n-Butanol	Listed
1310-58-3	Potassium hydroxide	Listed

## **New Jersey Right to Know:**

71-36-3	n-Butanol	Listed
1310-58-3	Potassium hydroxide	Listed

## **New York Right to Know:**

71-36-3	n-Butanol	Listed
1310-58-3	Potassium hydroxide	Listed

## Pennsylvania Right to Know:

71-36-3	n-Butanol	Listed
1310-58-3	Potassium hydroxide	Listed

California Proposition 65: None of the ingredients are listed.

**Additional information:** Not determined.

## **SECTION 16: Other Information**

## Abbreviations and Acronyms: None

#### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 3-0-0 **HMIS:** 3\*-0-0

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**End of Safety Data Sheet**