

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations and according to Canadian Hazardous Products Regulations (SOR/2015-17) (WHMIS 2015)

Issue date: 01/10/2025 Version: 1.0 **SECTION 1: Identification** 1.1. Identification Product form : Mixture Product name : Enromed Recommended use and restrictions on use 1.2. Use of the substance/mixture : Veterinary antibiotic 1.3. Supplier Bimeda 475 N Matingale RD #1200 Schaumburg, IL 60173 - USA T 630-928-0035 Bimeda- MTC Animal Health Inc. 420 Beaverdale Road Cambridge ON, N3C 2W4 - Canada T 519 654 8000 1.4. **Emergency telephone number** Emergency number : US: 1-888-524-6332

### SECTION 2: Hazard(s) identification

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	2.1. Classification of the substance or mixture				
	Classification (GHS)				
	Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.		
	Respiratory sensitisation, Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties inhaled.		
	Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.		
	Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.		
	Specific target organ toxicity – Repeated exposure, Category 1	H372	Causes damage to organs through prolonged or repeated exposure.		
	Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects.		

Canada: 519 654 8000 (Monday-Friday)

#### 2.2. GHS Label elements, including precautionary statements

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### **GHS** labelling

Hazard pictograms (GHS)

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Signal word (GHS)	: Danger	
Hazard statements (GHS)	<ul> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>	
Precautionary statements (GHS)	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P261 - Avoid breathing mist/vapors/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P272 - Contaminated work clothing must not be allowed out of the workplace.</li> </ul>	
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P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, chemical goggles, & face protection. P284 - [In case of inadequate ventilation] wear respiratory protection. P302+P352 - If on skin: Wash with plenty of water. P304+P341 - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - If exposed or concerned: Get medical advice/attention. P310 - Immediately call poison center/doctor/... P314 - Get medical advice/attention if you feel unwell. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor. P363 - Wash contaminated clothing before reuse. P391 - Collect spillage. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

#### No additional information available

#### 2.4. Unknown acute toxicity (GHS)

Not applicable

#### **SECTION 3: Composition/information on ingredients**

- 3.1. Substances
- Not applicable
- 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%*†
L-Arginine	L-Arginine	CAS-No.: 74-79-3	10 – 30
Enrofloxacin	1-Cyclopropyl-7-(4-ethyl-1-piperazinyl)-6-fluoro-1,4- dihydro-4-oxo-3-quinolinecarboxylic acid / 3-Quinolinecarboxylic acid, 1-cyclopropyl-7-(4- ethyl-1-piperazinyl)-6-fluoro-1,4-dihydro-4-oxo-	CAS-No.: 93106-60-6	5 – 10
1-Butanol	butan-1-ol; n-butanol n-Butyl alcohol / n-Butanol / 1-Butyl alcohol / 1- Hydroxybutane / Butyl alcohol, n- / Butanol, n- / Butan-1-ol / Normal butyl alcohol	CAS-No.: 71-36-3	1 – 5
Benzyl alcohol	.alphaHydroxytoluene / BENZYL ALCOHOL / Phenylmethyl alcohol / Phenylmethanol / Methanol, phenyl- / Benzenemethanol / Benzenecarbinol	CAS-No.: 100-51-6	1 – 5

\*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200) and the amendment to Section 4.5 of the Hazardous Products Regulations (SOR/2015-17) (WHMIS), the specific chemical identity or exact weight % has been withheld as a trade secret.

+Percentages are listed in weight-by-weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume-by-volume percentages (v/v%).

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data she doctor in attendance. Wash contaminated clothing before re-use. Never give any unconscious person.		
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.	
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention immediately.	
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.	

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First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.
4.2. Most important symptoms and	l effects (acute and delayed)
Symptoms/effects	: Causes serious eye damage. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.
Chronic symptoms	: Causes damage to organs through prolonged or repeated exposure. Suspected of damaging fertility. Suspected of damaging the unborn child.

## 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extingu	ishing media	
Suitable extinguishing media	: Foam. Carbon dioxide. Dry powder. Water spray.	
Unsuitable extinguishing media	: Strong water jet.	
5.2. Specific hazards arising from the	chemical	
Fire hazard	: Not flammable but may burn at high temperatures.	
Explosion hazard	: Product is not explosive.	
Reactivity	: No dangerous reactions known under normal conditions of use.	
5.3. Special protective equipment and	precautions for fire-fighters	
Precautionary measures fire	: Eliminate all ignition sources if safe to do so.	
Firefighting instructions	<ul> <li>Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not dispose of fire-fighting water in the environment.</li> </ul>	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective	equipment and emergency procedures	
General measures	: Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.	
6.1.1. For non-emergency personnel		
Protective equipment	: Wear Protective equipment as described in Section 8.	
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.	

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment	:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Prevent entry to sewers and public waters.
Methods for cleaning up	:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

See Sections 8 and 13.

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SECTION 7: Handling and storage		
7.1. Precautions for safe ha	andling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Keep container closed when not in use. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Avoid accidental injection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2. Conditions for safe sto	rage, including any incompatibilities	
Storage conditions	<ul> <li>Store in original container. Keep container closed when not in use. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in a dry, cool and well-ventilated place.</li> </ul>	
Incompatible materials	: No data available.	

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
Enrofloxacin (93106-60-6)		
USA - ACGIH - Occupational Exposure Limits		
Remark (ACGIH)	OELs not established	
USA - OSHA - Occupational Exposure Limits		
Remark (OSHA)	OELs not established	
Canada (all provinces) - Occupational Exposure	Limits	
Remark	OELs not established	
1-Butanol (71-36-3)		
Canada (Alberta) - Occupational Exposure Limits	5	
Local name	n-Butanol (n-Butyl alcohol)	
OEL TWA	60 mg/m <sup>3</sup>	
OEL TWA	20 ppm	
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.	
Regulatory reference	Alberta Regulation 191/2021	
Canada (Quebec) - Occupational Exposure Limit	s	
Plafond (OEL C)	152 mg/m <sup>3</sup>	
Plafond (OEL C)	50 ppm	
Canada (British Columbia) - Occupational Expos	ure Limits	
Local name	n-Butanol	
OEL TWA	15 ppm	
OEL C	30 ppm	
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)	
Canada (Manitoba) - Occupational Exposure Lim	its	
Local name	n-Butanol	
OEL TWA	20 ppm	
Notations and remarks	TLV® Basis: Eye & URT irr	
Regulatory reference	ACGIH 2024	

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1-Butanol (71-36-3)			
Canada (New Brunswick) - Occupational Exposure Limits			
Local name	n-Butanol		
OEL TWA	20 ppm		
Notations and remarks	Eye & URT irr		
Canada (Newfoundland and Labrador) - Occupation	nal Exposure Limits		
Local name	n-Butanol		
OEL TWA	20 ppm		
Notations and remarks	TLV® Basis: Eye & URT irr		
Regulatory reference	ACGIH 2024		
Canada (Nova Scotia) - Occupational Exposure Lim	its		
Local name	n-Butanol		
OEL TWA	20 ppm		
Notations and remarks	TLV® Basis: Eye & URT irr		
Regulatory reference	ACGIH 2024		
Canada (Nunavut) - Occupational Exposure Limits			
Local name	n-Butyl alcohol (n-butanol)		
OEL TWA	20 ppm		
OEL STEL	30 ppm		
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)		
Canada (Northwest Territories) - Occupational Expo	osure Limits		
Local name	n-Butyl alcohol (n-butanol)		
OEL TWA	20 ppm		
OEL STEL	30 ppm		
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)		
Canada (Ontario) - Occupational Exposure Limits	·		
OEL TWA	20 ppm		
Canada (Prince Edward Island) - Occupational Expo	osure Limits		
Local name	n-Butanol		
OEL TWA	20 ppm		
Notations and remarks	TLV® Basis: Eye & URT irr		
Regulatory reference	ACGIH 2024		
Canada (Saskatchewan) - Occupational Exposure L	imits		
Local name	n-Butyl alcohol (n-butanol)		
OEL TWA	20 ppm		
OEL STEL	30 ppm		
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10		

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1-Butanol (71-36-3)			
Canada (Yukon) - Occupational Exposure Limits			
OEL C	150 mg/m³		
OEL C	50 ppm		
USA - ACGIH - Occupational Exposure Limits			
Local name	n-Butanol		
ACGIH OEL TWA [ppm]	20 ppm		
Remark (ACGIH)	TLV® Basis: Eye & URT irr		
Regulatory reference	ACGIH 2023		
USA - OSHA - Occupational Exposure Limits			
Local name	n-Butyl alcohol		
OSHA PEL TWA [1]	300 mg/m <sup>3</sup>		
OSHA PEL TWA [2]	100 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
Benzyl alcohol (100-51-6)			
USA- AIHA WEEL TWA (ppm)	10 ppm		
USA - ACGIH - Occupational Exposure Limits			
Remark (ACGIH)	OELs not established		
USA - OSHA - Occupational Exposure Limits			
Remark (OSHA)	OELs not established		
Canada (all provinces) - Occupational Exposure Lir	nits		
Remark	OELs not established		
L-Arginine (74-79-3)			
USA - ACGIH - Occupational Exposure Limits			
Remark (ACGIH)	OELs not established		
USA - OSHA - Occupational Exposure Limits	USA - OSHA - Occupational Exposure Limits		
Remark (OSHA)	OELs not established		
Canada (all provinces) - Occupational Exposure Limits			
Remark	OELs not established		
	•		

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment symbol(s):



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#### Personal protective equipment:

Gloves. Protective goggles. Wear chemically impervious apron over labcoat and full coverage clothing.

#### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Be aware that the chemical may penetrate the gloves. Frequent changes are advisable. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

#### Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

#### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

#### **Respiratory protection:**

Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

#### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid
Appearance	: Clear
Color	: Clear, yellowish liquid
Odor	: Slight characteristic odor
Odor threshold	: No data available
рН	: 9.5 – 10.5 (undiluted)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Miscible in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

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## 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

Direct sunlight, extemely high or low temperatures and incompatible materials.

### 10.5. Incompatible materials

Strong acids, bases, oxidizers, halogens

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. When heated to decomposition it emits acrid smoke, fumes. Carbon oxides, Nitrogen oxides, Hydrogen fluoride, hydrogen cyanide.

11.1.       Information on toxicological effects         Acute toxicity (oral)       : Not classified         Acute toxicity (dermal)       : Not classified         Acute toxicity (inhalation)       : Not classified         Enrofloxacin (93106-60-6)	SECTION 11: Toxicological information	
Acute toxicity (dermal)       : Not classified         Acute toxicity (inhalation)       : Not classified         Enrofloxacin (93106-60-6)	11.1. Information on toxicological effects	
Acute toxicity (inhalation)       : Not classified         Enrofloxacin (93106-60-6)	Acute toxicity (oral)	: Not classified
Enrofloxacin (93106-60-6)         LD50 oral rat       5 g/kg (Source: NLM_CIP)         1-Butanol (71-36-3)         LD50 oral rat       700 mg/kg         LD50 dermal rabbit       3402 mg/kg         LC50 Inhalation - Rat [ppm]       > 8000 ppm/4h         Benzyl alcohol (100-51-6)       LD50 dermal rat         LD50 dermal rat       1230 mg/kg         LD50 dermal rat       2 g/kg (Source: NLM_CIP)         LD50 dermal rat       2 g/kg (Source: NLM_CIP)         LC50 Inhalation - Rat       > 4178 mg/m³ (Exposure time: 4 h Source: ECHA_API)         Skin corrosion/irritation       : Not classified         pH: 9.5 – 10.5 (undiluted)       2 causes serious eye damage.         pH: 9.5 – 10.5 (undiluted)       2 may cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	Acute toxicity (dermal)	: Not classified
LD50 oral rat       5 g/kg (Source: NLM_CIP)         1-Butanol (71-36-3)       ID50 oral rat         LD50 oral rat       700 mg/kg         LD50 dermal rabbit       3402 mg/kg         LC50 Inhalation - Rat [ppm]       > 8000 ppm/4h         Benzyl alcohol (100-51-6)       ID50 oral rat         LD50 dermal rat       1230 mg/kg         LD50 dermal rat       2000 mg/kg         LD50 dermal rat       2000 mg/kg         LD50 dermal rat       2 g/kg (Source: NLM_CIP)         LC50 Inhalation - Rat       > 4178 mg/m³ (Exposure time: 4 h Source: ECHA_API)         Skin corrosion/irritation       : Not classified         pH: 9.5 - 10.5 (undiluted)       : Causes serious eye damage.         pH: 9.5 - 10.5 (undiluted)       : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	Acute toxicity (inhalation)	: Not classified
1-Butanol (71-36-3)         LD50 oral rat       700 mg/kg         LD50 dermal rabbit       3402 mg/kg         LC50 Inhalation - Rat [ppm]       > 8000 ppm/4h         Benzyl alcohol (100-51-6)       1230 mg/kg         LD50 dermal rat       2000 mg/kg         LD50 dermal rat       2000 mg/kg         LD50 dermal rat       2000 mg/kg         LD50 dermal rat       2 g/kg (Source: NLM_CIP)         LC50 Inhalation - Rat       > 4178 mg/m³ (Exposure time: 4 h Source: ECHA_API)         Skin corrosion/irritation       : Not classified         pH: 9.5 – 10.5 (undiluted)       : Causes serious eye damage/irritation         serious eye damage/irritation       : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	Enrofloxacin (93106-60-6)	
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LD50 dermal rabbit       3402 mg/kg         LC50 Inhalation - Rat [ppm]       > 8000 ppm/4h         Benzyl alcohol (100-51-6)       1230 mg/kg         LD50 dermal rat       1230 mg/kg         LD50 dermal rat       2000 mg/kg         LD50 dermal rat       2 g/kg (Source: NLM_CIP)         LC50 Inhalation - Rat       > 4178 mg/m³ (Exposure time: 4 h Source: ECHA_API)         Skin corrosion/irritation       : Not classified         pH: 9.5 - 10.5 (undiluted)       : Causes serious eye damage.         pH: 9.5 - 10.5 (undiluted)       : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	1-Butanol (71-36-3)	
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Benzyl alcohol (100-51-6)         LD50 oral rat       1230 mg/kg         LD50 dermal rat       2000 mg/kg         LD50 dermal rat       2 g/kg (Source: NLM_CIP)         LC50 Inhalation - Rat       > 4178 mg/m³ (Exposure time: 4 h Source: ECHA_API)         Skin corrosion/irritation       : Not classified pH: 9.5 - 10.5 (undiluted)         Serious eye damage/irritation       : Causes serious eye damage. pH: 9.5 - 10.5 (undiluted)         Respiratory or skin sensitisation       : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	LD50 dermal rabbit	3402 mg/kg
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LD50 dermal rat       2000 mg/kg         LD50 dermal rabbit       2 g/kg (Source: NLM_CIP)         LC50 Inhalation - Rat       > 4178 mg/m³ (Exposure time: 4 h Source: ECHA_API)         Skin corrosion/irritation       : Not classified         pH: 9.5 – 10.5 (undiluted)       : Causes serious eye damage.         pH: 9.5 – 10.5 (undiluted)       : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	Benzyl alcohol (100-51-6)	
LD50 dermal rabbit       2 g/kg (Source: NLM_CIP)         LC50 Inhalation - Rat       > 4178 mg/m³ (Exposure time: 4 h Source: ECHA_API)         Skin corrosion/irritation       : Not classified         pH: 9.5 – 10.5 (undiluted)       : Causes serious eye damage.         pH: 9.5 – 10.5 (undiluted)       : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	LD50 oral rat	1230 mg/kg
LC50 Inhalation - Rat       > 4178 mg/m³ (Exposure time: 4 h Source: ECHA_API)         Skin corrosion/irritation       : Not classified         pH: 9.5 – 10.5 (undiluted)       : Causes serious eye damage.         pH: 9.5 – 10.5 (undiluted)       : Causes serious eye damage.         pH: 9.5 – 10.5 (undiluted)       : Causes allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	LD50 dermal rat	2000 mg/kg
Skin corrosion/irritation       : Not classified         pH: 9.5 – 10.5 (undiluted)         Serious eye damage/irritation       : Causes serious eye damage.         pH: 9.5 – 10.5 (undiluted)         Respiratory or skin sensitisation       : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	LD50 dermal rabbit	5 5 ( _ /
pH: 9.5 – 10.5 (undiluted)         Serious eye damage/irritation       : Causes serious eye damage.         pH: 9.5 – 10.5 (undiluted)         Respiratory or skin sensitisation       : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.         Germ cell mutagenicity       : Not classified	LC50 Inhalation - Rat	> 4178 mg/m <sup>3</sup> (Exposure time: 4 h Source: ECHA_API)
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allergic skin reaction.       Germ cell mutagenicity     : Not classified		pH: 9.5 – 10.5 (undiluted)
	Respiratory or skin sensitisation	
Carcinogenicity : Not classified	Germ cell mutagenicity	: Not classified
5 <i>,</i>	Carcinogenicity	: Not classified
Reproductive toxicity : Suspected of damaging fertility or the unborn child.	Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure : Not classified	STOT-single exposure	: Not classified
STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.	STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Benzyl alcohol (100-51-6)	Benzyl alcohol (100-51-6)	
NOAEL (oral, rat, 90 days) 400 mg/kg bodyweight Animal: rat, Guideline: other:	NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: other:
Aspiration hazard : Not classified	Aspiration hazard	: Not classified
Viscosity, kinematic : Not applicable	Viscosity, kinematic	: Not applicable
Symptoms/effects : Causes serious eye damage. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	Symptoms/effects	unborn child. Causes damage to organs through prolonged or repeated exposure. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin
Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact : May cause an allergic skin reaction.	Symptoms/effects after skin contact	
Symptoms/effects after eye contact : Causes serious eye damage.		, ,
Symptoms/effects after ingestion : May cause gastrointestinal irritation.		, .
Chronic symptoms : Causes damage to organs through prolonged or repeated exposure. Suspected of damaging fertility. Suspected of damaging the unborn child.		: Causes damage to organs through prolonged or repeated exposure. Suspected of damaging

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Toxic to aquatic life with long lasting effects.
1-Butanol (71-36-3)	
LC50 - Fish [1]	1730 – 1910 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	1983 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	1740 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: IUCLID)
EC50 - Crustacea [2]	1897 – 2072 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC (chronic)	4.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Benzyl alcohol (100-51-6)	
LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	23 mg/l (Exposure time: 48 h - Species: water flea)
LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
NOEC chronic fish	48897 mg/l Test organisms (species): other: Duration: '30 d'
Enrofloxacin (93106-60-6)	
EC50 - Crustacea [1]	0.173 mg/l (Exposure time: 72 h - Species: Anabaena flos-aquae)

### 12.2. Persistence and degradability

12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other adverse effects

: No data available.

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without a permit.
	In Canada, no discharges to surface waters are allowed without authorization under the Wastewater Systems Effluent Regulations. Follow all national, provincial and local requirements for wastewater discharge.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated for transport per exception 49 CFR 171.4

#### **Transport of Dangerous Goods**

Not regulated for transport per Special Provision 99

TDG Special Provisions: Special Provision 99 : These Regulations, except for Part 1 (Coming into Force, Repeal,<br/>Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply<br/>to the handling, offering for transport or transporting of less than 450 kg of UN3077,<br/>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., or less than 450 L of<br/>UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road<br/>vehicle or a railway vehicle. The dangerous goods must be contained in one or more small<br/>means of containment designed, constructed, filled, closed, secured and maintained so that<br/>under normal conditions of transport, including handling, there will be no accidental release of<br/>the dangerous goods that could endanger public safety.

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#### Transport by sea (IMDG)

Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Enrofloxacin), 9, III
UN-No. (IMDG)	3082
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5L
Marine pollutant	: Yes
	× · · · · · · · · · · · · · · · · · · ·
Other information	: In accordance with Chapter 2.10.2.7 of the IMDG Code, UN3082 substances may be shipped as "not restricted" provided that the net quantity in any receptable does not exceed 5 kg or 5L and the packaging used meets defined standards.
Air transport (IATA)	
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Enrofloxacin), 9, III
UN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Substances and Articles
Packing group (IATA)	: III - Low danger
Other information	Per IATA special provision A197, UN3082 substances may be shipped as "not restricted" provided that the net quantity in any receptable does not exceed 5 kg or 5L and the packaging used meets defined standards.

## **SECTION 15: Regulatory information**

## 15.1. US Federal and State regulations

Enromed	
	tive" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies
SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Serious eye damage or eye irritation Health hazard - Respiratory or skin sensitization Health hazard - Reproductive toxicity

1-Butanol (71-36-3)	
CERCLA RQ	5000 lb

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Component	State or local regulations
1-Butanol(71-36-3)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Benzyl alcohol(100-51-6)	U.S Pennsylvania - RTK (Right to Know) List

#### 15.2. Canadian regulations

All chemical substances in this product are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or are exempt.

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## 15.3. International regulations

No additional information available

## **SECTION 16: Other information**

Issue date	: 10 January 2025
Other information	: Author: SS
NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS Hazard Rating	
Health	: 3
Flammability	: 0
Physical	: 0
Indication of changes:	
Devision 1.0. New CDC Created	

Revision 1.0: New SDS Created.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.