

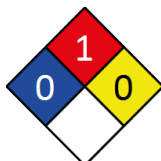


SECTION 1: IDENTIFICATION	
1.1 Product identifier	
Product name:	Marboquin™ (marbofloxacin) Tablets
Synonyms:	None
Proper Shipping name:	Not applicable
Other means of identification:	None
1.2 Relevant identified uses of the substances or mixture and uses advised against	
Recommended uses:	Anti-bacterial
Uses advised against:	Not for human use.
1.3 Details of the supplier of the substance or mixture	
Registered company name (US):	Dechra Veterinary Products, LLC
Address:	Dechra Veterinary Products, LLC 7015 College Blvd Suite 525 Overland Park KS 66211 USA
Telephone:	866-933-2472
Fax:	Not available
Website:	www.dechra-us.com
Email:	support@dechra.com
1.4 Emergency Telephone Numbers	
Dechra (US):	866-933-2472


SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

NFPA 704 Diamond



2.2 Label Elements

Hazard Pictogram:	
Signal Word:	WARNING
Hazard statement(s):	
H373 May cause damage to organs through prolonged or repeated exposure	
Supplementary Statement(s):	
	Not applicable
Precautionary Statement(s) Prevention:	
	P270 Do not eat, drink or smoke when using this product
Precautionary Statement(s) Response:	
	P312 Call a poison center or doctor / physician if you feel unwell
Precautionary Statement(s) Storage:	
	P405 Store locked up
Precautionary Statement(s) Disposal:	
	P501 Dispose of contents/ container in accordance with local regulations

2.3 Other Hazard Information

Not applicable.



SECTION 3: INFORMATION ON THE INGREDIENTS

3.1 Substances

See section below for composition of mixtures

3.2 Mixtures

1.CAS No 2.EC Number 3.Index Number 4.REACH Number	% Weight	Name
64044-51-5	50-100	Lactose
9004-34-6	10-30	cellulose
115550-35-1	10-30	marbofloxacin
Other ingredients	Not indicated	Ingredients determined not to be hazardous

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact:	Accidental spillage on the eyes should be washed off with plenty of water. If pain or irritation occurs, seek medical advice and show the package leaflet or the label to the medical practitioner.
Skin contact:	Accidental spillage on the skin should be washed off with plenty of water. If irritation occurs, seek medical advice and show the package leaflet or the label to the medical practitioner.
Inhalation:	Inhalation is highly unlikely due to the nature of the product and how it is packaged and administered. If irritation or difficulty in breathing occurs, seek urgent medical advice and show the package leaflet or the label to the medical practitioner. Remove the patient from the contaminated area. Lay the patient down, keep warm and rested.
Ingestion:	If swallowed, do not induce vomiting. Seek medical advice without delay and show the package leaflet or the label to the medical practitioner. Give water to rinse out mouth, then provide liquid slowly and as much as person can drink.



4.2 Most important symptoms and effects, both acute and delayed	
Eye contact:	May cause eye irritation.
Skin contact:	May cause skin irritation.
Ingestion:	Fluoroquinolones may cause central nervous system disorders and connective tissue structures. The most common adverse reactions associated with the use of quinolones include gastrointestinal distress, such as nausea or diarrhea, and central nervous system (CNS) effects, including insomnia, dizziness, and seizures. Sensory/motor nerve injury (peripheral neuropathy) may occur.
See Section 11 for more detailed information	
4.3 Indication of immediate medical attention and special treatment needed	
Treat symptomatically. Monitor respiratory, cardiac and central nervous system.	

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media	
Suitable:	Select extinguishing media suitable for surrounding area
Unsuitable:	There is no restriction on the type of extinguisher which may be used
5.2 Special hazards arising from the substance or mixture	
Fire incompatibility:	None known
5.3 Special protective actions for fire-fighters:	
Firefighting:	Use water delivered as a fine spray to control fire and cool adjacent area. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire / explosion hazard:	Extremely high temperatures such as encountered in a fire may produce hazardous fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
For information on protective equipment, see section 8	
6.2 Environmental Precautions	
See section 12	



6.3 Methods and material for containment and cleaning up	
Spills are unlikely due to the nature of the product and how it is packaged	
Minor Spills:	Small spills should be cleaned up and placed in a closed container for disposal.
Major Spills:	Large spills should be diked and contained and then absorbed with no reactive materials and place in disposal drums.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe Handling:	Always wash hands with water after handling. Observe manufacturer's storage and handling recommendations.
Other Information:	Store at room temperature (66-77°F). Keep out of the reach and sight of children.

7.2 Conditions for safe storage, including any incompatibilities

Suitable Container:	Store in original containers. Keep containers securely sealed.
Storage incompatibility:	No known incompatibilities.

7.3 Specific end uses

Not available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS (US):

Ingredient	Material Name	TEEL-1	TEEL-2	TEEL-3
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Not available

Ingredient	Original IDLH	Revised IDLH
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Not available



8.2 Exposure controls	
Appropriate engineering controls:	The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the particular risk.
Personal protection:	Non required
Eye and face protection:	Non required
Skin protection:	Non required
Hands/ feet protection:	No special equipment needed when handling small quantities.
Body protection:	Wear appropriate clothing.
Other protection:	No special equipment needed when handling small quantities.
Thermal hazards:	Not applicable
Respiratory protection:	Not applicable
8.3 Environmental exposure controls See Section 12	



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Scored tablets
Container: Bottles of 25mg, 50mg, 100mg or 200mg
Physical state: Tablet
Odor: Not available
Melting point / freezing point (degrees C): Not applicable
Initial boiling point and boiling range: Not applicable
Flash Point: Not applicable
Evaporation rate Not applicable
Flammability: Not available
Upper/lower flammability or explosive limits: Not available
Vapor pressure: Not applicable
Specific Gravity: Not available
Solubility in water and solvents (mg/l): Not available
Auto ignition temperature (degrees C): Not available
Decomposition temperature (degrees C): Not available
Viscosity: (degrees C): Not available
Explosive properties: Not available
Oxidizing properties: Not available
Partition Coefficient: Not available
Taste: Not applicable
Surface tension: Not available
Volatile component: Not available
Gas group: Not applicable
pH: Not available
VOC g/L: Not applicable

9.2 Other information
 Not Available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	See Section 7.
10.2 Chemical stability:	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3 Possibility of hazardous reactions:	The product is not considered to be hazardous if used as per instructions. Hazardous polymerisation will not occur.
10.4 Conditions to avoid:	Protect from light.
10.5 Incompatible materials:	See section 7.
10.6 Hazardous decomposition:	See Section 5.



SECTION 11: TOXICOLOGICAL INFORMATION		
Inhalation:	Due to the nature of the product, it is not expected to cause any irritation of the respiratory tract. However if it was in powder/ dust form, respiratory irritation can occur.	
Ingestion:	Accidental ingestion of the material may be harmful. Ingestion may result in mild gastrointestinal irritation with nausea, vomiting, or diarrhea. Large doses of cellulose may be administered orally as non-nutritive bulk, with doses of up to 30 g/day tolerated as bulk laxative while extremely large oral doses may produce disturbances to the gut. Fluoroquinolones have been associated with kidney damage, effects after exposure to UV light, seizures, changes in blood sugar levels (especially in diabetics), and crystal formation in the urine. They can also cause disease in the joints. Polysaccharides are not easily absorbed from the digestive tract, but may produce a laxative effect. Larger doses may produce intestinal or stomach blockage.	
Skin contact:	May cause skin irritation	
Eye contact:	May cause eye irritation	
Chronic:	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Inhalation studies using animals have shown that cellulose fibres can cause lung scarring, and humans exposed to cellulose at work are more likely to develop asthma and obstructive lung disease. Prolonged or repeated use of antibiotics, at therapeutic doses, may produce bacterial resistance for some types of bacteria. Prolonged use may result in the overgrowth of non-susceptible organisms	
Marboquin™ Tablets:	Toxicity	Irritation
	Not available	Not available
Lactose	Toxicity	Irritation
	Oral (rat) LD50: >10000 mg/kg[2]	Not available
Cellulose	Toxicity	Irritation
	Dermal (rabbit) LD50: >2000mg/kg[2] Oral (rat) LD50: >5000 mg/kg[2]	Not available
marbofloxacin	Toxicity	Irritation
	Oral (mouse) LD50: >2000 mg/kg[2]	Not available

1.* Value obtained from manufacturer's SDS. Unless otherwise specified, data extracted from RTECS - Register of Toxic Effect of chemical Substances



Skin corrosion/irritation:
Not expected to cause skin irritation.
Serious eye damage/irritation:
Not expected to cause any eye irritation
Respiratory or skin sensitization:
Not expected to be a respiratory sensitizer due to the nature of the product. Individuals with a history of hypersensitivity to fluoroquinolones should avoid this product. In humans, there is a risk of use photosensitization with a few hours after excessive exposure to quinolones. If excessive accidental exposure occurs, avoid direct sunlight.
Germ cell mutagenicity:
Not available
Carcinogenicity:
Not expected to be carcinogenic.
Reproductive toxicity:
Not expected to have reproductive toxicity effects.
STOT – single exposure:
Not available
STOT–repeated exposure:
Marbofloxacin should usually be avoided in young animals because of potential cartilage abnormalities. In rare occasion, it can cause central nervous system (CNS) stimulation and should be used with caution in patients with seizure disorders. Under certain conditions it can cause discomfort such as cramps, treatable with diazepam. Other adverse effects are usually limited to gastrointestinal tract (GI) distress (vomiting, anorexia, soft stools, diarrhea) and decreased activity. If in dust form, Asthma-like symptoms may continue for months or even years after exposure to cellulose. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound.
Aspiration hazard:
Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity					
Ingredient	Endpoint	Test duration (hr)	Species	Value	Source
Marboquin™ Tablets	Not available	Not available	Not available	Not available	Not available



Lactose	LC50 EC50	96 96	Fish Algae or other aquatic plants	9160000mg/l 340000000mg/l	3 3
Marbofloxacin	Not available	Not available	Not available	Not available	Not available

DO NOT discharge into sewer or waterways.

12.2 Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
cellulose	LOW	LOW
lactose	LOW	LOW

12.3 Bioaccumulative potential

Ingredient	Bioaccumulative Potential
cellulose	LOW (LogKOW = -5.1249)
lactose	LOW (LogKOW = -5.1249)

12.4 Mobility in Soil

Ingredient	Mobility
cellulose	LOW (KOC = 10)
lactose	LOW (KOC = 10)

12.5 Results of PBT and vPvB assessment

Not Available

12.6 Other adverse effects

Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / packaging disposal:	<p>Any unused veterinary medicinal product or waste material derived from such veterinary medicinal products should be disposed of in accordance with national requirements.</p> <p>Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area.</p> <p>Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill.</p>
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	<p>Recycle containers if possible, or dispose of in an authorised landfill.</p> <p>Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. Where in doubt contact the responsible authority.</p> <p>Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.</p>
Waste Treatment Options:	Not Available
Sewage Disposal Options:	Not Available

SECTION 14: TRANSPORT INFORMATION	
Labels required:	
Marine pollutant:	NO
Land transport (US: DOT / TDG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
Transport in bulk according to Annex II of MARPOL and the IBC code: Not applicable	

SECTION 15: REGULATORY INFORMATION
15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

<p>LACTOSE IS FOUND IN THE FOLLOWING REGULATORY LISTS: USA: TSCA</p> <p>CELLULOSE IS FOUND IN THE FOLLOWING REGULATORY LISTS: USA: OEL/ TLV/ WEELs/ TSCA/ RELs/ PELs</p>
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FEDERAL REGULATIONS:	
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Section 311/312 Hazard Categories	
Immediate (acute) health hazard	NO



Delayed (chronic) health hazard	NO
Fire hazard	NO
Pressure hazard	NO
Reactivity hazard	NO
US. EPA Cercla Hazardous Substances and Reportable Quantities (40 CFR 302.4) None reported	

STATE REGULATIONS:	
US. CALIFORNIA PROPOSITION 65 None reported	
National Inventory	Status
Australia - AICS	No (marbofloxacin)
Canada - DSL	No (marbofloxacin)
Canada - NDSL	No (lactose, marbofloxacin)
China - IECSC	No (marbofloxacin)
Europe - EINEC / ELINCS / NLP	No (marbofloxacin)
Japan - ENCS	No (Cellulose)
Korea - KECI	No (marbofloxacin)
New Zealand - NZIoC	Yes
Philippines - PICCS	No (marbofloxacin)
USA - TSCA	No (marbofloxacin)
Taiwan – TCSI	Yes
Mexico – INSQ	No (marbofloxacin)
Vietnam – NCI	Yes
Russia – ARIPS	No (marbofloxacin)
Legend:	<i>Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i>



SECTION 16: OTHER INFORMATION

The SDS is written in accordance to guidelines specified by OSHA HazCom Standard (2012) requirements.

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average

PC – STEL: Permissible Concentration-Short Term Exposure Limit

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

IDLH: Immediately Dangerous to Life or Health Concentrations

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