



Complying to 91/155/EC, 93/112/EC

# Product Safety Data Sheet

## Enrocare 5%

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Enrocare 5% solution for injection
Product Code	XVD 716: Enrocare 5% 100ml
Supplier	Animalcare Ltd, Common Road, Dunnington, York, YO19 5RU, Telephone No. +44 (0) 1904 487687 Fax No. +44 (0) 1904 487611 E-Mail: animalcare@animalcare.co.uk. Emergency Telephone +44 (0) 1904 487687 (daytime)

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### 2. HAZARDS IDENTIFICATION

This product is an alkaline solution. Wash any splashes from skin and eyes immediately with water. People with known hypersensitivity to (fluoro)quinolones should avoid contact with this product.

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### 3. COMPOSITION / INFORMATION ON COMPONENTS

	<u>CAS No.</u>	<u>FINECS No.</u>
Enrofloxacin	93106-60-6	
Potassium hydroxide	1310-58-3	215-181-3
Butyl alcohol	71-36-3	200-751-6

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### 4. FIRST AID MEASURES

Skin contact: In case of skin contact, wash affected areas with soap and water. Seek medical attention if irritation develops.

Inhalation: If inhaled remove to fresh air. If not breathing give artificial respiration.

Ingestion: If vomiting occurs keep head lower than hips to help prevent aspiration. Seek medical attention if required.

Eye contact: Irritating to eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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### 5. FIRE FIGHTING MEASURES

Extinguishing Agents: Sprayed water jet, foam, dry powder, CO<sub>2</sub>

Fire and Explosion Hazards: Non combustible material. Outer packaging may burn.

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Hazardous Combustion Products: Thermal decomposition products include hydrogen cyanide, hydrogen fluoride, carbon monoxide and nitrogen oxides.

Fire Fighting: Fight fire in the early stages if safe to do so. Wear respiratory protection. In well ventilated areas wear full face mask with a combination filter. (Offers no protection from carbon monoxide). In enclosed premises: respirator with independent air supply. Contain firefighting water.

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### 6. ACCIDENTAL RELEASE MEASURES

Procedures for clean up: Use any personal protective equipment listed in Chapter 8. Prevent spillage from spreading or entering soil, waterways and drains. Take up with absorbent material such as sawdust, peat or chemical binder. Fill material along with any contaminated soil etc., into sealable containers. Clean affected area with aqueous detergent and a small amount of water. Absorb this detergent/water with absorbent material. Place cleaning materials into the same container.

Do not eat, drink or smoke during clean-up operation.

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### 7. HANDLING AND STORAGE

Safe Handling: If using other than according to label, wear suitable gloves and eye/face protection.

Storage: Keep out of reach of children. Store away from food, drink or animal feeding stuffs. To maintain product quality, store below 25°C. Protect from temperatures below 0°C and above 50°C. Keep away from heat or moisture.



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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>	No exposure allocated for enrofloxacin.
<u>Ventilation:</u>	No ventilation is required under normal conditions of use.
<u>Eye Protection:</u>	Irritating to eyes. Wear suitable eye/face protection.
<u>Skin Protection:</u>	Irritating to skin. Wear suitable gloves.
<u>Respirator:</u>	No respirator is required under normal conditions of use.
<u>Protective Material Types:</u>	Rubber, latex.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Physical State:</u>	Sterile solution for injection
<u>Colour:</u>	Clear, yellow-tinged to light yellow
<u>Odour:</u>	Slight characteristic smell
<u>Boiling Point:</u>	Approx 100°C
<u>Solidifying Range:</u>	Not available
<u>Vapour Pressure:</u>	1 x 10 <sup>-7</sup> mm Hg at 25°C (enrofloxacin)
<u>Viscosity:</u>	Slightly viscous solution
<u>Solubility in Water:</u>	Miscible
<u>pH</u>	10.5 – 12.0 (undiluted)

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Flash Point: Not relevant. Boils above 100°C.

Ignition Temperature: Not relevant

Explosive Limits: Not relevant

Other Information: Light sensitive.

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### 10. STABILITY AND REACTIVITY

Chemical Stability: Product is stable. No hazardous reactions.

Conditions to Avoid: Avoid strong oxidising agents.

Incompatible Materials: None

Hazardous Decomposition: Thermal decomposition products include hydrogen cyanide, hydrogen fluoride, carbon monoxide and nitrogen oxides.

Hazardous Reactions: Will not polymerise.

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### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD<sub>50</sub> (rat) >5000 mg/kg (enrofloxacin)  
Oral LD<sub>50</sub> (mouse) 4336->5000 mg/kg (enrofloxacin)  
Inhalation LC<sub>50</sub> (rat) >3547 mg/m<sup>3</sup> (enrofloxacin)

Local Effects

Eye: Irritant to the eye.  
Skin: Irritant to the skin.

Administration to animals over a period of several weeks at elevated dosages has produced changes in articular cartilage.

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Reproductive Effects: Chronic exposure (3 months to 2 years) of laboratory species to enrofloxacin has produced testicular degeneration and associated adverse effects on spermatogenesis. None of the other ingredients of the formulation have been shown to produce reproductive or teratogenic effects.

Mutagenicity: None of the ingredients of the formulation have been shown to produce mutagenic effects.

Carcinogenic Effects: Enrofloxacin has been shown in animal tests to have no carcinogenic potential. Other ingredients are not classified as carcinogens.

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## 12. ECOLOGICAL INFORMATION

Ecotoxicity: Following data all for enrofloxacin.

### Fish

LC<sub>0</sub> 150 mg/L Golden orfe (*Leuciscus idus*)

LC<sub>0</sub> (96h) >10 mg/L Rainbow trout (*Salmo gairdneri*)

LC<sub>0</sub> (96h) >10 mg/L *Lepomis macrochirus*

### Daphnia

EC<sub>0</sub> (24h) >100 mg/L Water flea (*Daphnia magna*)

### Bacteria

EC<sub>0</sub> 0.0037 mg/L *Pseudomonas putida*

Studies on the influence of enrofloxacin on glucose stimulated respiration in the soil, and on microbial mineralisation of nitrogen in the soil, have shown no adverse effects after 14 days.



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### 13. DISPOSAL CONSIDERATIONS

Any unused product or waste materials should be disposed of in accordance with national requirements.

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### 14. TRANSPORT INFORMATION

General information(s): Transport followed ADR, IMDG, IATA

- ONU N°: No recommended limitations

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### 15. REGULATORY INFORMATION

Labelling: Labelled according to the labelling regulation in force for veterinary medicinal products

Note: The directive 2006/8/EC concerning the classification, packaging and labelling of dangerous preparations does not apply to the medicinal products for human or veterinary use in their finished state, intended for the final user.

S-phrase(s):

S 2: Keep out of reach of children

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

S46: If swallowed, seek medical advice immediately and show this container or label

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### 16. OTHER INFORMATION

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of their use.

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