

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Bioclanic 250 mg + 62.5 mg flavoured tablets for cats and dogs

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

One tablet contains:

Active substances:

Amoxicillin (as amoxicillin trihydrate)	250 mg
Clavulanic acid (as potassium clavulanate)	62.5 mg

Excipients:

Qualitative composition of excipients and other constituents	Quantitative composition if that information is essential for proper administration of the veterinary medicinal product
Cellulose, microcrystalline	
Sodium starch glycolate type A	
Crospovidone, type A	
Povidone K30	
Sacharin sodium	
Vanillin	
Silica, colloidal hydrated	
Magnesium stearate	
Iron oxide (brown)	1.07 mg

Tablets.

Brown, round and convex flavoured tablet with a cross-shaped break line on one side.
The tablet can be divided into equal halves and quarters.

3. CLINICAL INFORMATION

3.1 Target species

Dogs and cats.

3.2 Indications for use for each target species

For treatment of infections caused by bacteria susceptible to amoxicillin and clavulanic acid including: skin disease (including deep and superficial pyodermas); soft tissue infections (abscesses and anal sacculitis); dental infections (e.g. gingivitis); urinary tract infections; respiratory disease (involving upper and lower respiratory tract); enteritis.

3.3 Contraindications

Do not use in rabbits, guinea pigs, hamsters, gerbils or chinchillas.

Do not use in cases of hypersensitivity to the active substances, to other antimicrobials of the β -lactam

group or to any of the excipients.

Do not use in animals with serious dysfunction of the kidneys accompanied by anuria and oliguria. Do not use in ruminants and horses.

3.4 Special warnings

None.

3.5 Special precautions for use

Special precautions for safe use in the target species:

Use of the product should be based on identification and susceptibility testing of the target pathogen(s). If this is not possible, therapy should be based on epidemiological information and knowledge of susceptibility of the target pathogens at local/regional level. Use of the product should be in accordance with official, national and regional antimicrobial policies.

An antibiotic with a lower risk of antimicrobial resistance selection (lower AMEG category) should be used for first line treatment where susceptibility testing suggests the likely efficacy of this approach.

The association of amoxicillin/clavulanic acid should be reserved for the treatment of clinical conditions which have responded poorly to other classes of antimicrobials or narrow spectrum penicillins.

Cross-resistance has been shown between amoxicillin/clavulanic acid and β -lactam antibiotics. Use of the product should be carefully considered when susceptibility testing has shown resistance to β -lactam antibiotics because its effectiveness may be reduced.

Use of the product deviating from the instructions given in the SPC may increase the prevalence of bacteria resistant to amoxicillin/clavulanic acid and may decrease the effectiveness of treatment with β -lactam antibiotics due to the potential for cross-resistance.

Caution is advised when using the product in small herbivores, other than those which have been contraindicated in section 3.3.

In animals with hepatic and renal dysfunction, the dosing regimen should be carefully evaluated.

Special precautions to be taken by the person administering the veterinary medicinal product to animals:

Penicillins and cephalosporins may cause hypersensitivity (allergy) following injection, inhalation, ingestion or skin contact. Hypersensitivity to penicillins may lead to cross-reaction to cephalosporins and *vice versa*. Allergic reactions to these substances may occasionally be serious.

Do not handle this product if you know you are sensitised, or if you have been advised not to work with such preparations.

Handle this product with great care to avoid exposure, taking all recommended precautions.

If you develop symptoms following exposure such as a skin rash, you should seek medical advice and show the doctor this warning. Swelling of the face, lips or eyes or difficulty with breathing, are more serious symptoms and require urgent medical attention.

Wash hands after use.

To avoid accidental ingestion, particularly by a child, unused part-tablets should be returned to the open blister space, inserted back into the outer packaging and kept in a safe place out of the sight and reach of children.

Special precautions for the protection of the environment:

Not applicable.

3.6 Adverse events

Dogs and cats:

Very rare (<1 animal / 10,000 animals treated, including isolated reports):	Gastrointestinal disorders (vomiting, diarrhoea, anorexia).
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Undetermined frequency (cannot be estimated from the available data)	Allergic reactions (skin reactions, anaphylaxis)*.
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* In these cases, administration should be discontinued and a symptomatic treatment given.

Reporting adverse events is important. It allows continuous safety monitoring of a veterinary medicinal product. Reports should be sent, preferably via a veterinarian, to either the marketing authorisation holder or its local representative or the national competent authority via the national reporting system. See the package leaflet for respective contact details.

3.7 Use during pregnancy, lactation or lay

Can be used during pregnancy and lactation.

3.8 Interaction with other medicinal products and other forms of interaction

Chloramphenicol, macrolides, sulfonamides and tetracyclines may inhibit the antibacterial effect of penicillins because of the rapid onset of bacteriostatic action. Consider potential cross allergies with other penicillins. Penicillins can increase the effect of aminoglycosides.

3.9 Administration routes and dosage

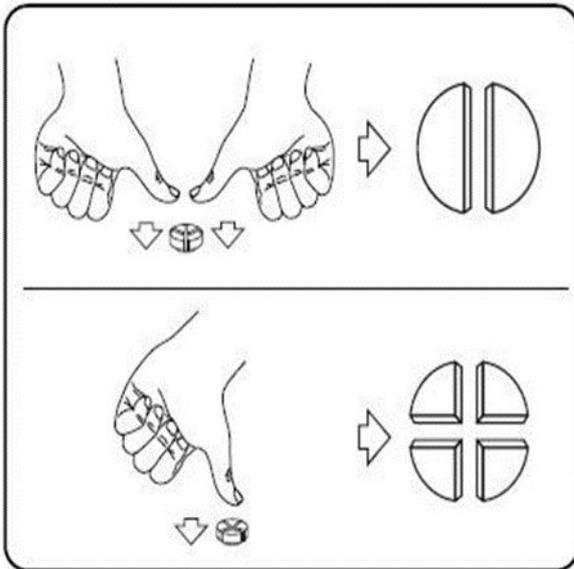
Oral use.

The recommended dose is 12.5 mg/kg body weight (10 mg amoxicillin/2.5 mg clavulanic acid per kg body weight), twice daily.

The following table is intended as a guide to dispensing the tablets at the recommended dose. To ensure a correct dosage body weight should be determined as accurately as possible to avoid underdosing.

Body weight (kg)	Number of tablets twice daily (dosage rate: 12.5 mg/kg b.w.)		
	Amoxicillin/clavulanic acid 50 mg + 12.5 mg	Amoxicillin/clavulanic acid 250 mg + 62.5 mg	Amoxicillin/clavulanic acid 500 mg + 125 mg
1-1.25	1/4	-	-
>1.25-2.5	1/2	-	-
>2.5-3.75	3/4	-	-
>3.75-5	1	-	-
>5-6.25	1 1/4	1/4	-
>6.25-12.5	-	1/2	1/4
>12.5-18.75	-	3/4	-
>18.75-25	-	1	1/2
>25-31.25	-	1 1/4	-
>31.25-37.5	-	1 1/2	-
>37.5-50	-	-	1
>50-62.5	-	-	1 1/4
>62.5-75	-	-	1 1/2

Tablets can be divided into 2 or 4 equal parts to ensure accurate dosage.



Halves: press down with your thumbs on both sides of the tablet.

Quarters: press down with your thumb in the middle of the tablet.

The minimum treatment duration is 5 days with the majority of routine cases responding after between 5 and 7 days therapy.

In chronic or refractory cases, a longer course of therapy may be required e.g. chronic skin disease 10 - 20 days, chronic cystitis 10 - 28 days, respiratory disease 8 - 10 days.

In such circumstances overall treatment length is at the clinician's discretion, but should be long enough to ensure complete resolution of the bacterial disease.

3.10 Symptoms of overdose (and where applicable, emergency procedures and antidotes)

Mild gastrointestinal symptoms (diarrhoea and vomiting) may occur more frequently after overdose of the product.

3.11 Special restrictions for use and special conditions for use, including restrictions on the use of antimicrobial and antiparasitic veterinary medicinal products in order to limit the risk of development of resistance

Not applicable.

3.12 Withdrawal periods

Not applicable.

4. PHARMACOLOGICAL INFORMATION

4.1 ATCvet code:

QJ01CR02

4.2 Pharmacodynamics

Amoxicillin, like the other β -lactam antibiotics, acts by inhibiting the synthesis of bacterial cell walls through interference with the final stage of peptidoglycan synthesis. This bactericidal action causes lysis of growing cells only.

Clavulanic acid is a β -lactamase inhibitor and improves the antibacterial spectrum of amoxicillin.

Amoxicillin in combination with clavulanic acid has a wide range of activity which includes β -lactamase producing strains of both Gram-positive and Gram-negative aerobes, facultative anaerobes and obligate anaerobes, including:

Gram-positive:

Clostridium spp.

Corynebacterium spp.

Peptostreptococcus spp.

Staphylococcus spp. (including β -lactamase producing strains)

Streptococcus spp.

Gram-negative:

Bacteroides spp.

Escherichia coli (including most β -lactamase producing strains)

Campylobacter spp.

Fusobacterium necrophorum

Pasteurella spp.

Proteus spp.

Resistance is shown among *Enterobacter* spp., *Pseudomonas aeruginosa* and methicillin-resistant *Staphylococcus aureus*. A trend in resistance of *E. coli* is reported.

Susceptibility and resistance patterns can vary with geographical area and bacterial strain, and may change over time.

Amoxicillin/ clavulanate breakpoints (CLSI VET 01S ED5:2020)

E. Coli (dog): sensitive MIC \leq 8/4 μ g/ml

Staphylococcus spp. (dog; cat): sensitive MIC \leq 0.25/0.12 μ g/ml, resistant: \geq 1/0.5 μ g/ml

Streptococcus spp. (cat): sensitive MIC \leq 0.25/0.12 μ g/ml, resistant: \geq 1/0.5 μ g/ml

Pasteurella multocida (cat): sensitive MIC \leq 0.25/0.12 μ g/ml, resistant: \geq 1/0.5 μ g/ml

The main mechanisms of resistance to amoxicillin/clavulanic acid are:

Inactivation by those bacterial beta-lactamases that are not themselves inhibited by clavulanic acid.

Modification of Penicillin-Binding Proteins (PBP), which reduce the affinity of the antibacterial agent for the target proteins (methicillin resistant *S. aureus*, MRSA and *S. pseudintermedius*, MRSP).

Impermeability of bacteria or efflux pump mechanisms may cause or contribute to bacterial resistance, particularly in Gram-negative bacteria. Resistance genes can be located on chromosomes (*mecA*, MRSA) or plasmids (*LAT*, *MIR*, *ACT*, *FOX*, *CMY* family beta-lactamases) and a variety of resistance mechanisms have emerged.

4.3 Pharmacokinetics

Dogs:

- Amoxicillin

After dosing of 10 mg/kg amoxicillin, maximum plasma concentrations are reached within 1.0 to 2.0 hours (t_{max}) with a mean half-life of 1.37 hours. C_{max} of 7430 ng/ml and AUC_{0-last} of 21800 ng.h/ml are observed.

- Clavulanic acid

After dosing of 2.5 mg/kg clavulanic acid, maximum plasma concentrations are reached within 0.5 to 1.5 hours (t_{max}) with a mean half-life of 0.627 hours. C_{max} of 3260 ng/ml and AUC_{0last} of 4830 ng.h/ml are observed.

Cats:

- Amoxicillin

After dosing of 10 mg/kg amoxicillin, maximum plasma concentrations are reached within 1.0 to

2.5 hours (t_{max}) with a mean half-life of 1.16 hours. C_{max} of 9390 ng/ml and AUC_{0-last} of 35300 ng.h/ml are observed

- Clavulanic acid

After dosing of 2.5 mg/kg clavulanic acid, maximum plasma concentrations are reached within 0.5 to 1.5 hours (t_{max}) with a mean half-life of 0.593 hours. C_{max} of 4390 ng/ml and AUC_{0-last} of 6650 ng.h/ml are observed.

Amoxicillin is well-absorbed following oral administration. Amoxicillin (pKa 2.8) has a relatively small apparent distribution volume, a low plasma protein binding (34% in dogs) and a short terminal half-life due to active tubular excretion via the kidneys. Following absorption, the highest concentrations are found in the kidneys (urine) and the bile, and then in liver, lungs, heart and spleen. The distribution of amoxicillin to the cerebrospinal fluid is low unless the meninges are inflamed. Clavulanic acid (pKa 2.7) is also well-absorbed following oral administration. The penetration to the cerebrospinal fluid is poor. The plasma protein binding is approximately 25% and the elimination half-life is short. Clavulanic acid is mainly eliminated by renal excretion (unchanged in urine).

5. PHARMACEUTICAL PARTICULARS

5.1 Major incompatibilities

Not applicable.

5.2 Shelf life

Shelf life of the veterinary medicinal product as packaged for sale: 30 months

The remaining tablet portions should be stored in the blister pocket and given at next administration.

5.3 Special precautions for storage

Do not store above 30°C.

Store in the original package in order to protect from light.

5.4 Nature and composition of immediate packaging

oPA/Alu/PVC - PVC/Alu heat sealed blister containing 10 tablets each.

Package sizes:

Cardboard box of 10, 20, 30, 40, 50, 100, 150, 200 or 250 tablets.

Not all pack sizes may be marketed.

5.5 Special precautions for the disposal of unused veterinary medicinal products or waste materials derived from the use of such products

Medicines should not be disposed of via wastewater or household waste.

Use take-back schemes for the disposal of any unused veterinary medicinal product or waste materials derived thereof in accordance with local requirements and with any national collection systems applicable to the veterinary medicinal product concerned.

6. NAME OF THE MARKETING AUTHORISATION HOLDER

Duggan Veterinary Supplies Limited

7. MARKETING AUTHORISATION NUMBERS

VPA 10400/006/002

8. DATE OF FIRST AUTHORISATION

{DD/MM/YYYY}

9. DATE OF THE LAST REVISION OF THE SUMMARY OF THE PRODUCT CHARACTERISTICS**10. CLASSIFICATION OF VETERINARY MEDICINAL PRODUCTS**

Veterinary medicinal product subject to prescription.

Detailed information on this veterinary medicinal product is available in the Union Product Database (<https://medicines.health.europa.eu/veterinary>).

LABELLING AND PACKAGE LEAFLET

PARTICULARS TO APPEAR ON THE OUTER PACKAGE**Cardboard box****1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Bioclanic 250 mg + 62.5 mg flavoured tablets

2. STATEMENT OF ACTIVE SUBSTANCES

Each tablet contains:

Amoxicillin (as amoxicillin trihydrate)	250 mg
Clavulanic acid (as potassium clavulanate)	62.5 mg

3. PACKAGE SIZE

10 tablets

20 tablets

30 tablets

40 tablets

50 tablets

100 tablets

150 tablets

200 tablets

250 tablets

4. TARGET SPECIES

Dogs and cats

5. INDICATIONS**6. ROUTES OF ADMINISTRATION**

Oral use.

7. WITHDRAWAL PERIODS**8. EXPIRY DATE**

Exp. {mm/yyyy}

9. SPECIAL STORAGE PRECAUTIONS

Do not store above 30°C.
Store in the original package in order to protect from light.

10. THE WORDS “READ THE PACKAGE LEAFLET BEFORE USE”

Read the package leaflet before use.

11. THE WORDS “FOR ANIMAL TREATMENT ONLY”

For animal treatment only.

12. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”

Keep out of the sight and reach of children.

13. NAME OF THE MARKETING AUTHORISATION HOLDER

Duggan Veterinary Supplies Limited

14. MARKETING AUTHORISATION NUMBERS

VPA 10400/006/002

15. BATCH NUMBER

Lot {number}

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

Blister

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Bioclanic

2. QUANTITATIVE PARTICULARS OF THE ACTIVE SUBSTANCES

Amoxicillin 250 mg /Clavulanic acid 62.5 mg

3. BATCH NUMBER

Lot {number}

4. EXPIRY DATE

Exp. {mm/yyyy}

PACKAGE LEAFLET

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

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2. COMPOSITION

One tablet contains:

Active substance:

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Excipients:

Iron oxide (brown)	1.07 mg
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Tablets.

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3. TARGET SPECIES

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4. INDICATION(S) FOR USE

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Do not use in rabbits, guinea pigs, hamsters, gerbils or chinchillas.

Do not use in cases of hypersensitivity to the active substances, to other antimicrobials of the β -lactam group or to any of the excipients.

Do not use in animals with serious dysfunction of the kidneys accompanied by anuria and oliguria. Do not use in ruminants and horses.

6. SPECIAL WARNING(S)

Special precautions for safe use in the target species:

Use of the product should be based on identification and susceptibility testing of the target pathogen(s). If this is not possible, therapy should be based on epidemiological information and knowledge of susceptibility of the target pathogens at local/regional level. Use of the product should be in accordance with official, national and regional antimicrobial policies.

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Use of the product deviating from the instructions given in the SPC may increase the prevalence of bacteria resistant to amoxicillin/clavulanic acid and may decrease the effectiveness of treatment with β -lactam antibiotics due to the potential for cross-resistance.

Caution is advised when using the product in small herbivores, other than those which have been contraindicated in section Contraindications.

In animals with hepatic and renal dysfunction, the dosing regimen should be carefully evaluated.

Special precautions to be taken by the person administering the veterinary medicinal product to animals:

Penicillins and cephalosporins may cause hypersensitivity (allergy) following injection, inhalation, ingestion or skin contact. Hypersensitivity to penicillins may lead to cross-reaction to cephalosporins and vice versa. Allergic reactions to these substances may occasionally be serious.

Do not handle this product if you know you are sensitised, or if you have been advised not to work with such preparations.

Handle this product with great care to avoid exposure, taking all recommended precautions.

If you develop symptoms following exposure such as a skin rash, you should seek medical advice and show the doctor this warning. Swelling of the face, lips or eyes or difficulty with breathing, are more serious symptoms and require urgent medical attention.

Wash hands after use.

To avoid accidental ingestion, particularly by a child, unused part-tablets should be returned to the open blister space, inserted back into the outer packaging and kept in a safe place out of the sight and reach of children.

Special precautions for the protection of the environment:

Not applicable.

Pregnancy and lactation:

Can be used during pregnancy and lactation.

Interaction with other medicinal products and other forms of interaction:

Chloramphenicol, macrolides, sulfonamides and tetracyclines may inhibit the antibacterial effect of penicillins because of the rapid onset of bacteriostatic action. Consider potential cross allergies with other penicillins. Penicillins can increase the effect of aminoglycosides.

Overdose:

Mild gastrointestinal symptoms (diarrhoea and vomiting) may occur more frequently after overdose of the product.

Major incompatibilities:

Not applicable.

7. ADVERSE EVENTS

Dogs and cats:

Very rare (<1 animal / 10,000 animals treated, including isolated reports):	Gastrointestinal disorders (vomiting, diarrhoea, anorexia).
Undetermined frequency (cannot be estimated from the available data)	Allergic reactions (skin reactions, anaphylaxis)*.

* In these cases, administration should be discontinued and a symptomatic treatment given.

Reporting adverse events is important. It allows continuous safety monitoring of a product. If you notice any side effects, even those not already listed in this package leaflet, or you think that the medicine has not worked, please contact, in the first instance, your veterinarian. You can also report any adverse events to the marketing authorisation holder or the local representative of the marketing authorisation holder using

the contact details at the end of this leaflet, or via your national reporting system: <{national system details}>.

8. DOSAGE FOR EACH SPECIES, ROUTES AND METHOD OF ADMINISTRATION

Oral use.

The recommended dose is 12.5 mg/kg body weight (10 mg amoxicillin/2.5 mg clavulanic acid per kg body weight), twice daily.

The following table is intended as a guide to dispensing the tablets at the recommended dose.

To ensure a correct dosage body weight should be determined as accurately as possible to avoid underdosing.

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1-1.25	¼	-	-
>1.25-2.5	½	-	-
>2.5-3.75	¾	-	-
>3.75-5	1	-	-
>5-6.25	1 ¼	¼	-
>6.25-12.5	-	½	¼
>12.5-18.75	-	¾	-
>18.75-25	-	1	½
>25-31.25	-	1 ¼	-
>31.25-37.5	-	1 ½	-
>37.5-50	-	-	1
>50-62.5	-	-	1 ¼
>62.5-75	-	-	1 ½

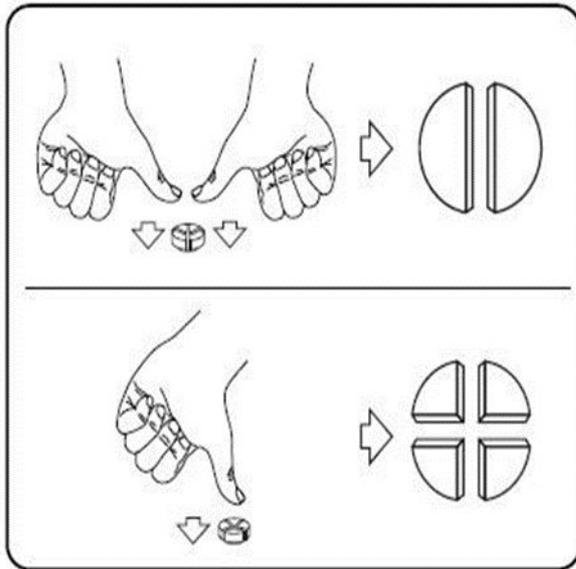
The minimum treatment duration is 5 days with the majority of routine cases responding after between 5 and 7 days therapy.

In chronic or refractory cases, a longer course of therapy may be required e.g. chronic skin disease 10 - 20 days, chronic cystitis 10 - 28 days, respiratory disease 8 - 10 days.

In such circumstances overall treatment length is at the clinician's discretion, but should be long enough to ensure complete resolution of the bacterial disease.

9. ADVICE ON CORRECT ADMINISTRATION

Tablets can be divided into 2 or 4 equal parts to ensure accurate dosage.



Halves: press down with your thumbs on both sides of the tablet.
Quarters: press down with your thumb in the middle of the tablet.

10. WITHDRAWAL PERIODS

Not applicable.

11. SPECIAL STORAGE PRECAUTIONS

Keep out of the sight and reach of children.

Do not store above 30°C.

Store in the original package in order to protect from light.

The remaining tablet portions should be stored in the blister pocket and given at next administration.

Do not use this veterinary medicinal product after the expiry date which is stated on the carton and the blister after EXP. The expiry date refers to the last day of that month.

12. SPECIAL PRECAUTIONS FOR THE DISPOSAL

Medicines should not be disposed of via wastewater or household waste. Use take-back schemes for the disposal of any unused veterinary medicinal product or waste materials derived thereof in accordance with local requirements and with any applicable national collection systems.

These measures should help to protect the environment.

Ask your veterinary surgeon or pharmacist how to dispose of medicines no longer required.

13. Classification of veterinary medicinal products

Veterinary medicinal product subject to prescription.

14. Marketing authorisation numbers and pack sizes

VPA 10400/006/002

oPA/Alu/PVC - PVC/Alu heat sealed blister containing 10 tablets each.

Package sizes:

Cardboard box of 10, 20, 30, 40, 50, 100, 150, 200 or 250 tablets.

Not all pack sizes may be marketed.

15. Date on which the package leaflet was last revised

{DD/MM/YYYY}

Detailed information on this veterinary medicinal product is available in the Union Product Database (<https://medicines.health.europa.eu/veterinary>).

16. Contact details

Marketing authorisation holder and contact details to report suspected adverse reactions:

Duggan Veterinary Supplies Limited
Unit 9
Retail Park
Thurles
Tipperary
E41 E7K7
Ireland

Only in case marketing authorisation holder is also the local contact to report suspected adverse reactions:
Tel: +353 (0) 504 43169

Manufacturer responsible for batch release:

Lelypharma
Zuiveringweg 42
8243 PZ Lelystad
the Netherlands

17. Other information