

**ANNEX III**  
**LABELLING AND PACKAGE LEAFLET**

## **A. LABELLING**

**PARTICULARS TO APPEAR ON THE OUTER PACKAGE**

Cardboard box

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Buprevet 0.3 mg/ml Solution for injection for dogs and cats

Buprenorphine

**2. STATEMENT OF ACTIVE SUBSTANCES**

Each ml contains:

Buprenorphine (as hydrochloride) 0.3 mg

**3. PHARMACEUTICAL FORM**

Solution for injection

**4. PACKAGE SIZE**

3 x 2 ml

4 x 2 ml

5 x 2 ml

6 x 2 ml

10 x 2 ml

**5. TARGET SPECIES**

Dogs and cats

**6. INDICATION(S)****7. METHOD AND ROUTE(S) OF ADMINISTRATION**

For IM or IV injection.

Read the package leaflet before use.

**8. WITHDRAWAL PERIOD(S)****9. SPECIAL WARNING(S), IF NECESSARY**

Read the package leaflet for full warnings (including user warnings) and other instructions before use.

**10. EXPIRY DATE**

Once broached use within 24 hours and store at 2 – 8 °C.  
EXP. END: {month/year}

**11. SPECIAL STORAGE CONDITIONS**

Keep the vial in the outer carton in order to protect from light.

**12. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCTS OR WASTE MATERIALS, IF ANY**

Disposal: read package leaflet.

**13. THE WORDS “FOR ANIMAL TREATMENT ONLY” AND CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE, IF APPLICABLE**

For animal treatment only. To be supplied only on veterinary prescription.

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

Keep out of the sight and reach of children.

**15. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

VetViva Richter GmbH  
Durisolstrasse 14  
4600 Wels  
Austria

**16. MARKETING AUTHORISATION NUMBER**

Vm 57446/4007

**17. MANUFACTURER’S BATCH NUMBER**

Lot {number}

**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS**

Clear glass vial type II with bromobutyl rubber stopper and alu-caps

**1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Buprevet 0.3 mg/ml Solution for injection for dogs and cats

Buprenorphine

**2. QUANTITY OF THE ACTIVE SUBSTANCE(S)**

Buprenorphine 0.3 mg/ml

**3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES**

2 ml

**4. ROUTE(S) OF ADMINISTRATION**

IV, IM

**5. WITHDRAWAL PERIOD(S)**

**6. BATCH NUMBER**

Lot {number}

**7. EXPIRY DATE**

EXP. END: {month/year}

**8. THE WORDS "FOR ANIMAL TREATMENT ONLY"**

For animal treatment only.

## **B. PACKAGE LEAFLET**

## PACKAGE LEAFLET

Buprevet 0.3 mg/ml Solution for injection for dogs and cats

### 1. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER AND OF THE MANUFACTURING AUTHORISATION HOLDER RESPONSIBLE FOR BATCH RELEASE, IF DIFFERENT

Marketing authorisation holder and manufacturer responsible for batch release:

VetViva Richter GmbH  
Durisolstrasse 14  
4600 Wels  
Austria

### 2. NAME OF THE VETERINARY MEDICINAL PRODUCT

Buprevet 0.3 mg/ml Solution for injection for dogs and cats

Buprenorphine

### 3. STATEMENT OF THE ACTIVE SUBSTANCE(S) AND OTHER INGREDIENT(S)

Each ml contains:

**Active substance:**

Buprenorphine (as hydrochloride) 0.3 mg

Clear, colourless to almost colourless solution

### 4. INDICATIONS

DOG

Post-operative analgesia.

Potentialiation of the sedative effects of centrally-acting agents.

CAT

Post-operative analgesia.

### 5. CONTRAINDICATIONS

Do not use in cases of hypersensitivity to the active substance or to any of the excipients. Do not administer by the intrathecal or peridural route. Do not use pre-operatively for Caesarian section (see section "Pregnancy").

### 6. ADVERSE REACTIONS

Salivation, bradycardia, hypothermia, agitation, dehydration and miosis can occur in the dog, and rarely hypertension and tachycardia.

Mydriasis and signs of euphoria (excessive purring, pacing, rubbing) commonly occur in cats and will usually resolve within 24 hours.

Buprenorphine may cause respiratory depression (refer to section “Special Warnings”). When used to provide analgesia, sedation is rarely seen, but may occur at dose levels higher than those recommended.

The frequency of adverse reactions is defined using the following convention:

- very common (more than 1 in 10 animals treated displaying adverse reaction(s))
- common (more than 1 but less than 10 animals in 100 animals treated)
- uncommon (more than 1 but less than 10 animals in 1,000 animals treated)
- rare (more than 1 but less than 10 animals in 10,000 animals treated)
- very rare (less than 1 animal in 10,000 animals treated, including isolated reports).

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 inform your veterinary surgeon.

## **7. TARGET SPECIES**

Dogs and cats

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

For intramuscular or intravenous use.

**DOG: Post-operative analgesia, potentiation of the sedation**

**CAT: Post-operative analgesia**

10 - 20 micrograms per kg (0.3 - 0.6 ml per 10 kg)

**For further pain relief the dose may be repeated if necessary:**

DOG: either after 3 - 4 hours with 10 µg/kg

or after 5 - 6 hours with 20 µg/kg.

CAT: Once, after 1 - 2 hours with 10 - 20 µg/kg.

## **9. ADVICE ON CORRECT ADMINISTRATION**

While sedative effects are present by 15 minutes after administration, analgesic activity becomes apparent after approximately 30 minutes. To ensure that analgesia is present during surgery and immediately on recovery, the product should be administered preoperatively as part of premedication.

When administered for potentiation of sedation or as part of premedication, the dose of other centrally-acting agents, such as acepromazine or medetomidine, should be reduced. The reduction will depend on the degree of sedation required, the individual animal, the type of other agents included in premedication and how anaesthesia is to be induced and maintained. It may also be possible to reduce the amount of inhalational anaesthetic used.

Animals administered opioids possessing sedative and analgesic properties may show variable responses. Therefore, the response of individual animals should be monitored and subsequent doses should be adjusted accordingly. In some cases,



repeat doses may fail to provide additional analgesia. In these cases, consideration should be given to using a suitable injectable NSAID.  
An appropriately graduated syringe must be used to allow accurate dosing.

## **10. WITHDRAWAL PERIOD(S)**

Not applicable.

## **11. SPECIAL STORAGE PRECAUTIONS**

Keep out of the sight and reach of children.  
Keep the vial in the outer carton in order to protect from light.  
Do not use this veterinary medicinal product after the expiry date which is stated on the label and carton after "EXP". The expiry date refers to the last day of that month.  
This product does not contain an antimicrobial preservative.  
Shelf life after first opening the container 24 hours when stored at 2 – 8 °C.

## **12. SPECIAL WARNINGS**

### **Special precautions for use in animals**

Buprenorphine may cause respiratory depression and as with other opioid drugs, care should be taken when treating animals with impaired respiratory function or animals that are receiving drugs that can cause respiratory depression.

In case of renal, cardiac or hepatic dysfunction or shock, there may be greater risk associated with the use of the product.

Safety has not been fully evaluated in clinically compromised cats.

Buprenorphine should be used with caution in animals with impaired liver function, especially biliary tract disease, as the substance is metabolised by the liver and its intensity and duration of action may be affected in such animals.

The safety of buprenorphine has not been demonstrated in animals less than 7 weeks of age.

Repeat administration earlier than the recommended repeat interval suggested in section "Dosage for each species" is not recommended.

Long-term safety of buprenorphine in cats has not been investigated beyond 5 consecutive days of administration.

The effect of an opioid on head injury is dependent on the type and severity of the injury and the respiratory support supplied.

Use of the product in the above circumstances should only be in accordance with the benefit/risk assessment by the responsible veterinarian.

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

As buprenorphine has opioid activity, care should be taken to avoid self-injection.

Buprenorphine may be absorbed systemically on exposure to mucous membranes.

The product may cause skin or eye irritation if contact occurs. Following eye, skin or mouth contact, wash the affected area thoroughly with water. Seek medical advice if irritation persists.

In case of accidental self-injection or ingestion, seek medical advice immediately and show the package leaflet or the label to the physician. Naloxone should be available in case of accidental self-injection. Wash hands after use.

## **Pregnancy**

Laboratory studies in rats have not produced any evidence of a teratogenic effect. However, these studies have shown post-implantation losses and early foetal deaths. These may have resulted from a reduction in parental body condition during gestation and in post-natal care owing to sedation of the mothers.

As reproductive toxicity studies have not been conducted in the target species, use only according to the benefit/risk assessment by the responsible veterinarian.

The product should not be used pre-operatively in cases of Caesarean section, due to the risk of respiratory depression in the offspring periparturiently, and should only be used post-operatively with special care (see below section "Lactation").

## **Lactation**

Studies in lactating rats have shown that, after intramuscular administration of buprenorphine, concentrations of unchanged buprenorphine in the milk equalled or exceeded that in the plasma. As it is likely that buprenorphine will be excreted in the milk of other species, use is not recommended during lactation. Use only in accordance with the benefit/risk assessment by the responsible veterinarian.

## **Interaction with other medicinal products and other forms of interaction**

Buprenorphine may cause some drowsiness, which may be potentiated by other centrally acting agents, including tranquillisers, sedatives and hypnotics.

There is evidence in humans to indicate that therapeutic doses of buprenorphine do not reduce the analgesic efficacy of standard doses of an opioid agonist, and that when buprenorphine is employed within the normal therapeutic range, standard doses of opioid agonist may be administered before the effects of the former have ended without compromising analgesia. However, it is recommended that buprenorphine is not used in conjunction with morphine or other opioid-type analgesics, e.g. etorphine, fentanyl, pethidine, methadone, papaveretum or butorphanol.

Buprenorphine has been used with acepromazine, alphaxalone/alphadolone, atropine, dexmedetomidine, halothane, isoflurane, ketamine, medetomidine, propofol, sevoflurane, thiopental and xylazine. When used in combination with sedatives, depressive effects on heart rate and respiration may be augmented.

## **Overdose (symptoms, emergency procedures, antidotes)**

In cases of overdosage, supportive measures should be instituted, and, if appropriate, naloxone or respiratory stimulants may be used.

When administered at overdose to dogs, buprenorphine may cause lethargy. At very high doses, bradycardia and miosis may be observed.

Naloxone may be of benefit in reversing reduced respiratory rate and respiratory stimulants such as Doxapram are also effective in man. Because of the prolonged duration of effect of buprenorphine in comparison to such drugs, they may need to be administered repeatedly or by continuous infusion. Volunteer studies in man have indicated that opiate antagonists may not fully reverse the effects of buprenorphine. In toxicological studies of buprenorphine hydrochloride in dogs, biliary hyperplasia was observed after oral administration for one year at dose levels of 3.5 mg/kg/day and above. Biliary hyperplasia was not observed following daily intramuscular injection of dose levels up to 2.5 mg/kg/day for 3 months. This is well in excess of any clinical dose regimen in the dog.

### **Incompatibilities**

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products.

### **13. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS, IF ANY**

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

### **14. DATE ON WHICH THE PACKAGE LEAFLET WAS LAST APPROVED**

December 2023

### **15. OTHER INFORMATION**

#### Pharmacodynamic properties

Buprenorphine is a potent, long-acting analgesic acting at opiate receptors in the central nervous system. Buprenorphine can potentiate the effects of other centrally-acting agents, but has, at clinical doses, only a limited sedative effect of its own. Buprenorphine exerts its analgesic effect via high affinity binding to opiate receptors, particularly  $\mu$ , in the central nervous system. At clinical dose levels buprenorphine binds with high affinity and high receptor avidity, such that its dissociation from the receptor site is slow. This could account for its longer duration of activity. Buprenorphine has little effect on gastro-intestinal motility.

#### Pharmacokinetic particulars

Signs of sedation normally appear by 15 minutes. Analgesic effects appear around 30 minutes with peak effects usually being observed at about 1 – 1.5 hours.

Following intravenous administration to dogs there is considerable inter-dog variability in pharmacokinetic parameters.

The major route of excretion in dogs and cats is the faeces. Highest concentrations of drug-related material were observed in liver, lung and brain. Peak levels occurred rapidly and declined to low levels by 24 hours after dosing.

#### Package sizes

3 x 2 ml, 4 x 2 ml, 5 x 2 ml, 6 x 2 ml, 10 x 2 ml

Not all pack sizes may be marketed.

For any information about this veterinary medicinal product, please contact the local representative of the marketing authorisation holder.

Approved 27 December 2023

