

# Isotonic sodium chloride solution ad us. vet.

## 9 mg/ml, injection/infusion solution

for cattle, horses, sheep, goats, pigs, dogs, cats, rabbits, mice, shrews, field mice, rats, hamsters, guinea pigs, gerbils, chinchillas, buffaloes, camels, fallow deer, poultry, ornamental birds, house sparrows, starlings, finches.

### 1 ml solution contains

Active substance:

Sodium chloride 9 mg/ml

Solution for injection or infusion.

Clear, colourless solution.

Osmolarity: 260 – 300 mOsmol/l

pH-value: 5,0 – 7,0

**Available on prescription only!**

MAH-No: V7005243.00.00



### Target species

Cattle, horse, sheep, goat, pig, dog, cat, rabbit, mouse, shrew, field mouse, rat, hamster, guinea pig, gerbil, chinchilla, buffalo, camel, fallow deer, poultry, pet birds, house sparrow, starling, finch.

### Indications for use

For all target species:

- Isotonic fluid replacement
- Correction of sodium and chloride imbalances
- Treatment of metabolic alkalosis and during and after surgical procedures
- Rehydration in disease with excessive water and sodium chloride loss and during and after surgical procedures
- Carrier solution for administration of other medicines

Additionally for cattle, horses, sheep, goats, pigs, dogs and cats:

Externally for wound irrigation and moistening of compresses.

### Contraindications

Do not use in animals with fluid and sodium retention, especially in heart failure.

Do not use in animals with oedema (hepatic, renal or cardiac).

Do not use in animals with hyperchloraemia.

### Special warnings

Special precautions for safe use in the target species:

The solution should ideally be warmed to 37 °C to avoid hypothermia.

Dosage and infusion rate must be adapted to the clinical condition of each animal.

The solution should be clear, contain no visible solid particles and the container should be completely intact. Otherwise, the solution should not be administered.

Sodium overload may occur in animals with heart or kidney disease.

Sodium excretion may be impaired after surgery/injury.

In case of intravenous injection, the risk of thrombosis should be considered.

Antiseptic precautions should be observed.

Use cautiously in animals with hypokalaemia.

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Serum electrolyte levels, water and acid-base balance and the clinical condition of the animal must be closely monitored during treatment to prevent overdosage, especially in the event of changes in metabolism or renal function.

The veterinary medicinal product should not be used for longer than necessary to correct and maintain circulating volume. The electrolyte composition of the solution is not adequately balanced for long-term hydration to meet maintenance requirements. Inappropriate or excessive use may aggravate or cause metabolic acidosis.

## Pregnancy, lactation or lay:

Can be used during pregnancy, lactation or laying period.

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

It is recommended that the infusion be used with caution in animals receiving treatment with corticosteroids or corticostimulants to avoid hypertension and excessive fluid retention when administering large volumes.

Other drug interactions are not known.

Concomitant administration of colloids requires dose reduction.

## Overdose:

It is recommended to maintain the serum sodium concentration at less than or equal to 130 mEq/l. In case of symptoms suggestive of circulatory overload, administer diuretics and stop the infusion.

To ensure adequate diuresis and to avoid cardiovascular overload and pulmonary or cerebral oedema, the treated animal must be closely monitored.

The exclusive use of an isotonic sodium chloride solution in high doses leads to acidosis caused by the displacement of the bicarbonate ions by the chloride ions.

Clinical signs of significant overdose include agitation, hypersalivation, tremors, tachycardia, serous nasal discharge, tachypnoea, moist breath sounds, cough, exophthalmos, extensive oedema, vomiting and diarrhoea.

## Major incompatibilities:

The compatibility of this veterinary medicinal product with an additional medicinal product shall be assessed with regard to colour changes or the occurrence of a precipitate of insoluble complexes or crystals. The package leaflet of the additional veterinary medicinal product must be taken into account.

Before adding a medicinal product, check that it is soluble and stable under the pH conditions of an isotonic sodium chloride solution.

## **Adverse events**

None known if contraindications are observed.

Cattle, horse, sheep, goat, pig, dog, cat, rabbit, mouse, shrew, field mouse, rat, hamster, guinea pig, gerbil, chinchilla, buffalo, camel, fallow deer, poultry, pet birds, house sparrow, starling, finch:

|                        |   |
|------------------------|---|
| Undetermined frequency | Circulatory overload*<br>drug side effects**<br>acidosis***<br>hyponatremia with subsequent dehydration**** |
|------------------------|---|

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- \* due to excessive infusion rate and dosage
- \*\* when the veterinary medicinal product is used as a drug carrier
- \*\*\* due to the presence of a sodium/chlorine ratio different from that of plasma, resulting in a decrease in the concentration of bicarbonates
- \*\*\*\* as a result of inappropriate or excessive administration

## Dosage for each species, routes and method of administration

For slow intravenous infusion in all target species.

For intravenous, intraperitoneal or subcutaneous injection in all target animal species.

For external use in cattle, horses, sheep, goats, pigs, dogs and cats.

The amount of fluid to be administered is based on the existing deficiencies, maintenance requirements and continuous losses as determined by the animal's history, clinical examination and laboratory findings.

For all species, the maximum recommended dose is 50 ml of solution per kg body weight per day.

For subcutaneous administration, a reduced dose is recommended.

In the case of infusion, the rate of infusion must be adapted to the individual animal. The aim is to make up about half of the calculated deficit in the first one to two hours.

## Advise on correct administration

Not applicable.

## Withdrawal periods

Meat and offal: Zero days

Milk: Zero hours

Eggs: Zero days

## Special storage precautions

Keep out of the sight and reach of children.

This veterinary medicinal product does not require any special storage conditions.

Shelf life after first opening the container: use immediately.

## Special precautions for disposal

Unused veterinary medicinal products are preferably to be handed in at hazardous waste collection points. In the case of joint disposal with household waste, it must be ensured that no improper access to this waste can take place. Veterinary medicinal products must not be disposed of with waste water or via the sewage system. Ask your veterinary surgeon or pharmacist how to dispose of medicines no longer required.

## Classification of veterinary products

Veterinary medicinal product subject to prescription.

## Pack sizes

500 ml; 750 ml; 10 L. Not all pack sizes may be marketed.

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