

## **SUMMARY OF PRODUCT CHARACTERISTICS**

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

Stresnil 40 mg/ml Solution for Injection for Pigs

### **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each ml contains:

**Active substance:**

Azaperone 40 mg

**Excipients:**

Methyl parahydroxybenzoate (E218) (antimicrobial preservative)	0.5 mg
Propyl parahydroxybenzoate (E216) (antimicrobial preservatives)	0.05 mg
Sodium metabisulphite (E223) (antioxidant)	2.0 mg

For full list of excipients, see section 6.1.

### **3. PHARMACEUTICAL FORM**

Solution for injection.

A sterile, clear, pale yellow aqueous solution.

### **4. CLINICAL PARTICULARS**

#### **4.1 Target species**

Pigs

#### **4.2 Indications for use, specifying the target species**

A neuroleptic sedative for pigs to be used for the treatment of:

- i) Aggression
  - prevention of fighting
  - treatment of aggression in sows
- ii) Stress, including transport-related stress
- iii) Obstetric conditions e.g., cessation of parturition due to excitation, as an obstetric aid in manual delivery, inversion of the vagina, prolapse of the uterus, pathological straining.
- iv) Premedication in local and general anaesthesia

#### **4.3 Contraindications**

The use of the product should be avoided in very cold conditions because of a possible risk of cardiovascular collapse due to peripheral vasodilation.

A dose of 0.5 ml/20 kg should not be exceeded in boars as a higher dose may cause the penis to be extruded, which may then be damaged.

Stresnil is contraindicated for use in transport or for re-grouping of pigs which will be slaughtered prior to the end of the 18 day withdrawal period.

#### **4.4 Special warnings for target species**

Occasional deaths have been observed in Vietnamese Pot Bellied pigs. It is thought this may be caused by injection into the fat leading to slow induction and tendency to use additional doses, leading to overdose. It is important with this breed not to exceed the stated dose.

Do not re-inject if the animal is unresponsive to the initial dose, allow full recovery before re-injecting on a different day.

#### **4.5 Special precautions for use**

i. Special precautions for use in animals

After treatment the animal should be left alone in a quiet environment. Insufficient results may be obtained if the animal is disturbed or chased during the induction period.

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

This is a potent drug - particular care should be taken to avoid accidental self administration. It is recommended that, once the required dose has been withdrawn from the vial, the needle should be kept guarded until the product is administered. Alternatively, the needle should be removed from the syringe and immediately inserted into the injection site, and the syringe should be connected to it.

Wash off splashes from skin and eyes immediately.

In the case of accidental self-injection, seek medical advice immediately, and show the package leaflet or label to the physician.

Wash hands after use.

#### **4.6 Adverse reactions (frequency and seriousness)**

Salivation and panting may occur at high doses. These side effects disappear spontaneously and leave no lasting damage.

#### **4.7 Use during pregnancy, lactation or lay**

Can be used in pregnant and lactating animals, and in particular obstetric conditions e.g. cessation of parturition due to excitation or as an obstetric aid to manual delivery.

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

When given as premedication for general anaesthesia, the dosage of anaesthetic should be reduced because of the potentiating effect of azaperone.

## 4.9 Amounts to be administered and administration route

### Method of administration

To be given strictly by intramuscular injection, behind the ear. A long hypodermic needle should be used and the injection given as closely behind the ear as possible and perpendicular to the skin. There is a risk of injecting part of the drug into the fat, if heavy animals are injected with a short needle into the neck. In this case, the injection may have insignificant effect. Do not re-inject if the animal is unresponsive to the initial dose, allow full recovery before re-injecting on a different day. An appropriately graduated syringe must be used to allow accurate administration of the required dose volume. This is particularly important when injecting small volumes.

Do not administer more than 5 ml per injection site.

### Dosage

It is important to adhere to the recommended dose. Aggression may only be curbed temporarily or not at all if the dose is too low. If the dose is too high, aggression may recur after awakening.

#### I. Aggression:

i) Prevention and cure of fighting (including regrouping of piglets, porkers or fattening pigs): 1 ml/20 kg (2 mg/kg).

Pigs from different litters or pens may be brought together into one pen immediately after administration. All animals should be treated. After a few minutes, they lie down together for about 2 hours, irrespective of their origin. Afterwards, violent fights are unlikely to occur.

During the time of treatment, untreated animals should not be admitted to the run. The product will not prevent aggressiveness in non-castrated adult boars. Newly weaned piglets may be treated together with other routine treatments on arrival at the fattening unit.

Fighting animals become quiet shortly after injection. The animals are unlikely to fight even after the effect of the drug has worn off.

ii) Treatment of aggression in sows, i.e. in sows that do not accept their new-born piglets, or bite them: 1ml/20kg (2mg/kg).

The sow will accept her piglets ½ to 1 hour after administration and will also accept piglets from other litters.

#### II. Stress

i) Restlessness, anxiety, nervousness, excitation, e.g. because of pain: 0.5-1 ml/20 kg (1-2 mg/kg)

The dosage should be adapted to the degree of excitation. If the animal is very nervous, the product may be given in divided doses at 15 minute intervals.

ii) Transport of boars: 0.5 ml/20 kg (1 mg/kg)

The animals should not be brought together within the first half hour following injection because they are still likely to be aggressive; they should be left alone in a quiet environment during the induction period (approximately 30 minutes). The dose of 0.5 ml/20 kg (1 mg/kg) should not be exceeded as a higher dose may cause the penis to be extruded, which may then be damaged.

iii) Transport of weaners: 1 ml/100 kg to 1 ml/20 kg (0.4-2 mg/kg)  
Administer 15-30 minutes before transport to reduce mortality and weight loss during transport. The dose can be increased up to 1ml/20kg (2mg/kg) in order to prevent fighting during transport. Allow adequate space for animals to lie down and ensure that the lorry is adequately ventilated.

### III. Obstetrics:

1 ml/20 kg (2 mg/kg)

For use in cessation of parturition due to excitation, as an obstetric aid during manual delivery, inversion of the vagina, prolapse of the uterus, pathological straining.

### IV. Premedication in local and general anaesthesia:

0.5-1 ml/20 kg (1-2 mg/kg)

For example in blood sampling, diagnostic examination and minor therapeutic interventions under local anaesthesia (castration, cryptorchidism and prolapse of the rectum, inguinal hernia, wound treatment, insertion of nose rings in boars and sows, etc)

Exact dosage will depend on the type and duration of the procedure and concomitant medication.

## **4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary**

If the dose exceeds that recommended, aggression may result on reawakening. In boars overdosing (>1 mg/kg) may cause the penis to be extruded, which may then be damaged. Salivation and panting may occur at high doses.

Repeat dosing in Vietnamese Pot Bellied pigs too soon because of absorption of the initial dose in fat has resulted in death.

## **4.11 Withdrawal period(s)**

Meat and offal: 18 days.

## **5. PHARMACOLOGICAL PROPERTIES**

**Pharmacotherapeutic group:** Nervous system, antipsychotics

**ATCvet code:** QN05AD90

### **5.1 Pharmacodynamic properties**

Stresnil is a sedative butyrophenone neuroleptic with pronounced  $\alpha$ -adrenergic properties for specific use in pigs.

Stresnil produces a predictable psychomotor sedation without narcosis after intramuscular administration. The degree of sedation is dose-related. Adult animals require comparatively lower doses than half-grown animals. At low doses

(0.5 mg/kg), the animal is slightly sedated, yet it can be easily driven. With increasing doses, the animal becomes increasingly drowsy and slow. At 2 mg/kg, it lies down for about 2 hours, can hardly be driven and ceases to be aggressive. The induction period is short. Peak effect is reached after about 15 minutes in young animals and 30 minutes in adult animals. The duration of action is 1-3 hours, depending on the dose and the weight of the animal.

## **5.2 Pharmacokinetic particulars**

Azaperone is rapidly absorbed from the injection site and peak concentrations in plasma occur within 1 hour after administration. The elimination from plasma is fast ( $T_{1/2} = 2.5$  h), due to the rapid and extensive metabolism and excretion.

The main metabolic pathways are:

- 1) reduction of the butanone
- 2) oxidative N-dearylation
- 3) hydroxylation of the pyridine group

The target tissue for azaperone and its metabolites is the liver. Low residue levels are present in muscle and other edible tissues.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Methyl parahydroxybenzoate (E218)  
Propyl parahydroxybenzoate (E216)  
Sodium metabisulphite (E223)  
Tartaric acid  
Sodium hydroxide (for pH adjustment)  
Water for injections

### **6.2 Incompatibilities**

None known.

### **6.3 Shelf life**

Shelf life of the veterinary medicinal product as packaged for sale: 3 years.  
Shelf life after first opening the immediate packaging: 28 days.

### **6.4 Special precautions for storage**

Do not store above 25 °C.  
Following withdrawal of the first dose, use the product within 28 days.  
Discard unused material.

### **6.5 Nature and composition of immediate packaging**

Container: colourless glass (Type I) vial  
Closure: lacquered natural rubber or bromobutyl rubber bung secured with an aluminium overseal  
Each vial contains 100 ml.

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

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

**7. MARKETING AUTHORISATION HOLDER**

Elanco Europe Ltd.  
Form 2, Bartley Way  
Bartley Wood Business Park  
Hook  
RG27 9XA  
United Kingdom

**8. MARKETING AUTHORISATION NUMBER**

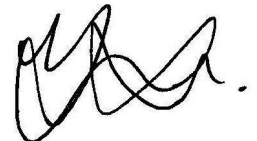
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**9. DATE OF FIRST AUTHORISATION**

17 May 1989

**10. DATE OF REVISION OF THE TEXT**

March 2021

A handwritten signature in black ink, consisting of several loops and a final horizontal stroke.

Approved: 18 March 2021