

KEEP OUT OF REACH OF CHILDREN
FOR ANIMAL TREATMENT ONLY

TOPLINE

For the treatment & control of abamectin-sensitive internal and external parasites of beef and dairy cattle.

ACTIVE CONSTITUENT

10 mg/ml abamectin.

DIRECTIONS FOR USE

By law the user must take due care, obtaining expert advice when necessary, to avoid unnecessary pain and distress when using the product other than as directed on the label. Read safety directions before opening or using.

DOSAGE AND ADMINISTRATION

For topical application to cattle. 1 ml/20 kg bodyweight (500ug abamectin/kg liveweight).

Do not use on calves less than four months of age, or calves of any age weighing less than 100 kg.

Cattle in excess of 650 kg should be dosed at 1 ml/20 kg bodyweight. Dose rate to be based on heaviest animal in each group. A representative sample of animals should be weighed before treatment either with scales or a weighband. Do not underdose. Where there is a large variation in size within the group, draft into two or more lines based on bodyweight, to avoid excessive overdosing. Apply along the backline from the shoulders towards the tail. Resistance may develop to any chemical. Ask your veterinarian for recommended parasite management practices for your area to reduce the development of resistance.

Bodyweight	Dose Volume	Bodyweight	Dose Volume
100-149 kg	5 ml	400-449 kg	20 ml
150-199 kg	7.5 ml	450-499 kg	22.5 ml
200-249 kg	10 ml	500-549 kg	25 ml
250-299 kg	12.5 ml	550-599 kg	27.5 ml
300-349 kg	15 ml	600-649 kg	30 ml
350-399 kg	17.5 ml		

EFFICACY

Topline contains abamectin, a member of the avermectin family of drenches. It is effective against sensitive strains of the following internal and external parasites. For the treatment and control of adult and immature stages of:

Gastro-intestinal roundworms

- *Ostertagia ostertagi* - Small brown stomach worms (including inhibited stages)
- *Trichostrongylus axei* - Stomach hair worm
- *Trichostrongylus colubriformis* - Hair worm
- *Haemonchus* spp. - Barber's pole worm
- *Oesophagostomum radiatum* - Nodule worm
- *Cooperia oncophora** - Small intestine worm
- *Cooperia punctata** - Small intestine worm
- *Nematodirus spathiger* - Thin necked intestinal worm
- *Oesophagostomum venulosum* - Large bowel worm
- *Trichuris* spp. - Whipworm
- *Strongyloides papillosus* - Intestinal worm

*Active against immature stages of some New Zealand ML resistant strains of *Cooperia* spp.

Lungworms

- *Dictyocaulus viviparus*

Sucking Lice and Biting Lice

- *Linognathus vituli* - Long nosed sucking louse
- *Haematopinus eurysternus* - Short nosed sucking louse
- *Damalinia bovis* - Biting louse
- *Solenopotes capillatus* - Little blue sucking louse

PERSISTENT ACTIVITY

At the recommended dose rate, Topline effectively controls infection with *Ostertagia* spp. (small brown stomach worms) and *Cooperia* spp.

(small intestine worm) acquired up to 14 days after treatment and with *Dictyocaulus viviparus* (lungworm) acquired up to 28 days after treatment.

RAIN RESISTANCE

For best results it is recommended that Topline be applied to dry animals. However, rainfall before and after use will not affect efficacy.

PRODUCTION ENHANCEMENT

Increases milk production in grazing dairy cows. Data has shown that milk production increases by a median of approximately +0.6 kg liquid milk per day when cows or heifers infected with gastrointestinal nematode parasites are treated with an effective anthelmintic. This increase occurs without any reduction in milk quality.

SIMULTANEOUS USE WITH SELENIUM POUR-ON PRODUCTS

Studies show that the use of this product at the recommended dose at the same time as selenium pour-on products should not adversely affect efficacy against abomasal and small intestinal nematodes.

WITHHOLDING PERIODS

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

- MEAT: Animals producing meat or offal for human consumption must not be sold for slaughter within 35 days of treatment.
- MILK: Nil.

REGULATORY INFORMATION

Obtain special instructions before use.

WARNING: Combustible liquid - keep away from flames and hot surfaces. Very toxic to terrestrial vertebrates. Toxic to aquatic life and harmful to the soil environment. Avoid release to the environment. Collect spillage.

Handling Precautions: Wear protective gloves and eye protection when handling. Harmful if in contact with skin. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Causes eye irritation. Harmful if swallowed. May cause harm to breast-fed children. Do not breathe vapours. Avoid contact during pregnancy / while nursing. May cause damage to organs through prolonged or repeated exposure.

FIRST AID

If medical advice is needed, have product container or label at hand. **If swallowed:** Call a POISON INFORMATION CENTER 0800 POISON (0800 764 766) or a doctor if you feel unwell. Rinse mouth. **If on skin:** Wash hands thoroughly with plenty of soap and water. If skin irritation occurs get medical advice. **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical advice. Additional information is listed in the Safety Data Sheet.

DISPOSAL

Dispose of empty container by wrapping with paper and putting in the rubbish.

STORAGE

Store in a well ventilated place and keep cool. Store below 30°C (room temperature).

Registered pursuant to the ACVM Act 1997, No. A10067. See www.foodsafety.govt.nz for registration conditions.

Registered to and distributed in New Zealand by:

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of animal health

