

rate of 0.36 gram of levamisole hydrochloride (equivalent) per 100 lb. of body weight; conditions of constant helminth exposure may require re-treatment within 2 to 4 weeks after the first treatment; do not slaughter for food within 48 hours of treatment; consult veterinarian before using in severely debilitated animals; do not administer to dairy animals of breeding age; for use in pelleted or meal feeds only; the label shall bear the caution, "Muzzle foam may be observed. However, this reaction will disappear within a few hours. If this condition persists, a veterinarian should be consulted. Follow recommended dosage carefully."

(2) *Swine*—(i) *Amount per pound*. 0.36 grams (0.08 percent).

(ii) *Indications for use*. Treatment of the following nematode infections: large roundworms (*Ascaris suum*), nodular worms (*Oesophagostomum* spp.), lungworms (*Metastrongylus* spp.), intestinal threadworms (*Strongyloides ransomi*), swine kidney worms (*Stephanurus dentatus*).

(iii) *Limitations*. It is recommended that regular feed be withheld overnight and worming feed administered the following morning; dilute supplement with nonmedicated feed as directed; feed the equivalent of 1 lb. of 0.08 percent worming feed per 100 lbs. of body weight of pigs to be treated; may be fed as sole feed or thoroughly mixed with 1 to 2 parts of regular feed prior to feeding; when medicated feed is consumed, resume normal feeding. Pigs maintained under conditions of constant worm exposure may require retreatment within 4 to 5 weeks after the first treatment due to reinfection; do not slaughter for food within 72 hours of treatment; the label shall bear the caution, "Excessive salivation or muzzle foam may be observed. This reaction is occasionally seen and will disappear in a short time after medication. If pigs are infected with mature lungworms, coughing and vomiting may be observed soon after medicated feed is consumed. This reaction is due to the

expulsion of worms from the lungs and will be over in several hours."

[40 FR 13959, Mar. 27, 1975, as amended at 43 FR 11176, Mar. 17, 1978; 43 FR 39351, Sept. 5, 1978; 43 FR 16013, Mar. 16, 1979; 51 FR 7398, Mar. 3, 1986; 67 FR 63055, Oct. 10, 2002]

§ 558.325 Lincomycin.

(a) *Approvals*. Type A articles and Type B feeds approved for sponsors in § 510.600(c) of this chapter for specific uses as in paragraph (d) of this section as follows:

(1) No. 000009 for 20 and 50 grams per pound.

(2)–(4) [Reserved]

(5) No. 043733 for 8 and 20 grams per pound.

(6)–(12) [Reserved]

(13) No. 051311 for 2.5 and 8 grams per pound.

(14)–(15) [Reserved]

(b) *Related tolerances*. See § 556.360 of this chapter.

(c) *Special considerations*—(1) Labeling of Type A medicated articles and Type B and Type C medicated feeds containing lincomycin shall bear the following directions: "CAUTION: Do not allow rabbits, hamsters, guinea pigs, horses, or ruminants access to feeds containing lincomycin. Ingestion by these species may result in severe gastrointestinal effects."

(2) Labeling of Type A medicated articles and Type B and Type C medicated feeds containing lincomycin intended for use in swine shall bear the following directions: "CAUTION: Occasionally, swine fed lincomycin may within the first 2 days after the onset of treatment develop diarrhea and/or swelling of the anus. On rare occasions, some pigs may show reddening of the skin and irritable behavior. These conditions have been self-correcting within 5 to 8 days without discontinuing the lincomycin treatment."

(3) Labeling of Type A medicated articles and single-ingredient Type B and Type C medicated feeds containing lincomycin intended for use in swine shall bear the following directions:

(i) No. 000009: "CAUTION: The effects of lincomycin on swine reproductive performance, pregnancy, and lactation have not been determined. Not for use in swine intended for breeding when

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lincomycin is fed at 20 grams per ton of complete feed.”

(ii) Nos. 043733 and 051311: “CAUTION: Not to be fed to swine that weigh more than 250 lb.”

(d) *Conditions of use*—(1) *Chickens*. It is used in feed as follows:

Lincomycin grams/ton	Indications for use	Limitations	Sponsor
(i) 2	Broilers: For control of necrotic enteritis caused by <i>Clostridium</i> spp. or other susceptible organisms..	As lincomycin hydrochloride monohydrate.	000009
(ii) 2 to 4	Broilers: For increased rate of weight gain and improved feed efficiency..	As lincomycin hydrochloride monohydrate.	000009

(2) *Swine*. It is used in feed as follows:

Lincomycin grams/ton	Indications for use	Limitations	Sponsor
(i) 20	Growing-finishing swine: For increased rate of weight gain..	Feed as sole ration.	000009
(ii) 40	1. For control of swine dysentery.	Feed as sole ration; for use in swine on premises with a history of swine dysentery but where symptoms have not yet occurred, or following use of lincomycin at 100 grams (g)/ton for treatment of swine dysentery..	000009 043733 051311
	2. For control of porcine proliferative enteropathies (ileitis) caused by <i>Lawsonia intracellularis</i> ..	Feed as sole ration, or following use of lincomycin at 100 g/ton for control of porcine proliferative enteropathies (ileitis)..	000009
(iii) 100	1. For treatment of swine dysentery.	Feed as sole ration for 3 weeks or until signs of disease disappear..	000009 043733 051311
	2. For control of porcine proliferative enteropathies (ileitis) caused by <i>Lawsonia intracellularis</i> ..	Feed as sole ration for 3 weeks or until signs of disease disappear..	000009
(iv) 200	For reduction in the severity of swine mycoplasmal pneumonia caused by <i>Mycoplasma hyopneumoniae</i> ..	Feed as sole ration for 3 weeks.	000009 051311

(3) Lincomycin may also be used in combination with:

(i) Amprolium and ethopabate or amprolium and ethopabate with roxarsone in accordance with § 558.58.

(ii) Clopidol in accordance with § 558.175.

(iii) Decoquinatate in accordance with § 558.195.

(iv) Fenbendazole as provided in § 558.258.

(v) Halofuginone in accordance with § 558.265.

(vi) Ivermectin as in § 558.300.

(vii) Lasalocid alone or with roxarsone in accordance with § 558.311.

(viii) Monensin alone or with roxarsone in accordance with § 558.355.

(ix) Nicarbazin alone or with narasin or roxarsone as in § 558.366.

(x) Pyrantel as in § 558.485.

(xi) Robenidine in accordance with § 558.515.

(xii) Roxarsone in accordance with § 558.530.

(xiii) Salinomycin with or without roxarsone as in § 558.550.

(xiv) Zoalene in accordance with § 558.680.

[40 FR 13959, Mar. 27, 1975]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 558.325, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

§ 558.340 Maduramicin ammonium.

(a) *Approvals*. Type A medicated articles: 4.54 grams per pound to 046573 in § 510.600(c) of this chapter.

(b) *Tolerances*. See § 556.375 of this chapter.

(c) *Conditions of use*—(1) *Amount*. 4.54 to 5.45 grams per ton (5 to 6 parts per million) (1 to 1.2 pounds per ton).