(2) Melengestrol may also be used with:
   (i) Ractopamine as in §558.500 of this chapter.
   (ii) Zilpaterol as in §558.665 of this chapter.

[42 FR 28535, June 3, 1977]

EDITORIAL NOTE: For Federal Register citations affecting §558.342, see the List of CFR Section Affected, which appears in the Finding Aids section of the printed volume and at www.fdsys.gov.

§ 558.348 Mibolerone.

(a) Approvals. To No. 054771 in §510.600(c) of this chapter for a canned dog food, each 6 1/2 ounce can containing 30 or 60 micrograms of mibolerone.

(b) Conditions of use—(1) Amount. 30 micrograms for animals weighing up to 25 pounds; 60 micrograms for animals weighing 26 to 50 pounds; 120 micrograms for animals weighing 51 to 100 pounds; 180 micrograms for animals weighing over 100 pounds, or German Shepherds or German Shepherd mix weighing 30 to 80 pounds.

(2) Indications for use. For the prevention of estrus (heat) in adult female dogs not intended primarily for breeding purposes.

(3) Limitations. Administer daily at least 30 days before expected initiation of heat and continue as long as desired, but for not more than 12 months. Mibolerone should not be used in bitches before first estrous period or in purebred Bedlington terriers. It is not intended for animals being used primarily for breeding purposes. Use orally in adult female dogs only. Federal law restricts this drug to use by or on the order of a licensed veterinarian.


§ 558.355 Monensin.

(a) Specifications. Type A medicated articles containing monensin, USP.

(b) Approvals. Approvals for Type A medicated articles containing the specified levels of monensin activity granted to firms identified by sponsor numbers in §510.600(c) of this chapter for the conditions of use indicated in paragraph (f) of this section are as follows:

(1) To No. 000986: 36.3 (for export only), 44, 45, 60, or 90.7 grams per pound for use as in paragraphs (f)(1)(i) and (f)(4) of this section.

(2) To 000986: 110 grams per lb., paragraphs (f)(1) (i), (iii), (iv), (v), (ix), and (x).

(3) [Reserved]
(4) To No. 000986: 45, 60, or 90.7 grams per pound for use as in paragraph (f)(2) of this section.

(5) To 066104: 45 and 60 grams per pound, as monensin sodium provided by No. 000986, paragraphs (f)(1)(xiii), (xx), and (xxi) of this section.

(6) To No. 000986: 45, 60, or 90.7 grams per pound for use as in paragraph (f)(5) of this section.

(7) To 000986: 20, 30, 45, 60, 80, and 90.7 grams per pound, as monensin sodium, paragraph (f)(3) of this section.

(8) To 054771: 45 and 60 grams per pound, as monensin sodium provided by No. 000986, paragraph (f)(1)(xv) of this section.

(9) To 054771: 45 and 60 grams per pound, as monensin sodium provided by No. 000986, paragraphs (f)(1)(xvi) and (xvii) of this section.

(10) To 016592: 45 and 60 grams per pound, as monensin sodium, paragraph (f)(1)(xvii) of this section.

(11) To 054771: 45 and 60 grams per pound, as monensin sodium provided by No. 000986, paragraphs (f)(1)(xviii), (xix), (xxiv), (xxv), (xxvi), and (xxvii) of this section.

(12) To 066104: 45 and 60 grams per pound, as monensin sodium provided by No. 000986, paragraph (f)(1)(xxii) of this section.

(13) To No. 012286: 60 and 80 grams per pound, paragraph (f)(3)(v) of this section.

(14) To 000986: 60, 80, and 90.7 grams per pound, as monensin sodium, paragraph (f)(6) of this section.

(c) [Reserved]

(d) Special considerations. (1) Type C

chicken feed containing monensin as the mycelial cake shall bear an expiration date of 90 days after its date of manufacture.

(2)-(3) [Reserved]

(4) Liquid Type B feeds shall bear an expiration date of 8 weeks after its date of manufacture.

(5) All Type A medicated articles containing monensin shall bear the following warning statement: When mixing and handling monensin Type A medicated articles, use protective clothing, impervious gloves, and a dust mask. Operators should wash thoroughly with soap and water after handling. If accidental eye contact occurs, immediately rinse thoroughly with water.

(6) All formulations containing monensin shall bear the following caution statement: Do not allow horses or other equines access to feed containing monensin. Ingestion of monensin by horses has been fatal.

(7) Type A medicated articles containing monensin intended for use in cattle and goats shall bear, in addition to the caution statement in paragraph (d)(6) of this section, the following statements:

(i) Monensin medicated cattle and goat feeds are safe for use in cattle and goats only. Consumption by unapproved species may result in toxic reactions.

(ii) Feeding undiluted or mixing errors resulting in high concentrations of monensin has been fatal to cattle and could be fatal to goats.

(iii) Must be thoroughly mixed in feeds before use.

(iv) Do not feed undiluted.

(v) Do not exceed the levels of monensin recommended in the feeding directions, as reduced average daily gains may result.

(vi) Do not feed to lactating goats.

(vii) If feed refusals containing monensin are fed to other groups of cattle, the concentration of monensin in the refusals and amount of refusals fed should be taken into consideration to prevent monensin overdosing (see paragraphs (d)(10)(i) and (d)(10)(ii) of this section).

(viii) A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

(ix) You may notice the following: Reduced voluntary feed intake in dairy cows fed monensin. This reduction increases with higher doses of monensin fed. Rule out monensin as the cause of reduced feed intake before attributing to other causes such as illness, feed management, or the environment. Reduced milk fat percentage in dairy cows fed monensin. This reduction increases with higher doses of monensin fed. Increased incidence of cystic ovaries and metritis in dairy cows fed monensin. Reduced conception rates, increased services per animal, and extended days open and corresponding...
calving intervals in dairy cows fed monensin. Have a comprehensive and ongoing nutritional, reproductive, and herd health program in place when feeding monensin to dairy cows.

(x) Inadequate mixing (recirculation or agitation) of monensin liquid Type B or Type C medicated feeds has resulted in increased monensin concentration which has been fatal to cattle and could be fatal to goats.

(8) Type A medicated articles containing monensin intended for use in chickens, turkeys, and quail shall bear the following statements:

(i) Do not allow horses, other equines, mature turkeys, or guinea fowl access to feed containing monensin. Ingestion of monensin by horses and guinea fowl has been fatal.

(ii) Must be thoroughly mixed in feeds before use.

(iii) Do not feed undiluted.

(iv) Do not feed to laying chickens.

(v) Do not feed to chickens over 16 weeks of age.

(vi) For replacement chickens intended for use as cage layers only.

(vii) Some strains of turkey coccidia may be monensin tolerant or resistant. Monensin may interfere with development of immunity to turkey coccidiosis.

(viii) In the absence of coccidiosis in broiler chickens the use of monensin with no withdrawal period may limit feed intake resulting in reduced weight gain.

(9) Type B feeds containing monensin shall bear the statements specified in the following paragraphs of this section when intended for use in:

(i) Cattle (as described in paragraphs (f)(3)(i) through (f)(3)(xii) of this section): See paragraphs (d)(6), (d)(7)(i) through (d)(7)(iv), (d)(7)(vii), and (d)(7)(viii) of this section.

(ii) Dairy cows (as described in paragraphs (f)(3)(xiii) and (f)(3)(xiv) of this section): See paragraphs (d)(6), (d)(7)(i), (d)(7)(vii), and (d)(7)(viii) of this section.

(iii) Goats: See paragraphs (d)(6) and (d)(7)(i) through (d)(7)(vi) of this section.

(iv) Chickens: See paragraphs (d)(8)(i), (d)(8)(iv), (d)(8)(v), and (d)(8)(vii) of this section.

(v) Turkeys: See paragraphs (d)(8)(i), (d)(8)(ii), (d)(8)(iii), and (d)(8)(vii) of this section.

(vi) Quail: See paragraphs (d)(8)(i), (d)(8)(ii), and (d)(8)(iii) of this section.

(10) Type C feeds containing monensin shall bear the statements specified in the following paragraphs of this section when intended for use in:

(i) Cattle (as described in paragraphs (f)(3)(i) through (f)(3)(xii) of this section): See paragraphs (d)(6), (d)(7)(i) through (d)(7)(vii), (d)(7)(viii), and (d)(7)(ix) of this section.

(ii) Dairy cows (as described in paragraphs (f)(3)(xiii) and (f)(3)(xiv) of this section): See paragraphs (d)(6), (d)(7)(i) through (d)(7)(vii), (d)(7)(viii), and (d)(7)(ix) of this section.

(iii) Goats: See paragraphs (d)(6) and (d)(7)(i) through (d)(7)(vi) of this section.

(iv) Chickens: See paragraphs (d)(8)(i) through (d)(8)(vii), and (d)(8)(viii) of this section.

(v) Turkeys: See paragraphs (d)(8)(i) and (d)(8)(vii) of this section.

(vi) Quail: See paragraph (d)(8)(i) of this section.

(11) Type B and Type C liquid feeds requiring recirculation or agitation that contain monensin and are intended for use in cattle (including dairy cows) and goats shall bear the caution statement specified in paragraph (d)(7)(x) of this section.

(12) Mixing directions for liquid feeds requiring recirculation or agitation:

(i) For liquid feeds stored in recirculating tank systems: Recirculate immediately prior to use for not less than 10 minutes, moving not less than 1 percent of the tank contents per minute from the bottom of the tank to the top. Recirculate daily as described even when not used.

(ii) For liquid feeds stored in mechanical, air, or other agitation-type tank systems: Agitate immediately prior to use for not less than 10 minutes, creating a turbulence at the bottom of the tank that is visible at the
top. Agitate daily as described even when not used.
(e) Related tolerances. See §556.420 of this chapter.
(f) Conditions of use. It is used as follows:
(1) Broiler chickens—(i) Amount per ton. Monensin, 90–110 grams.
   (a) Indications for use. As an aid in the prevention of coccidiosis caused by E. necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima.
   (b) Limitations. Feed continuously as the sole ration. In the absence of coccidiosis, the use of monensin with no withdrawal period may limit feed intake resulting in reduced weight gain. Do not feed to laying chickens.
   (ii) [Reserved]
      (a) Indications for use. For increased rate of weight gain and improved feed efficiency; as an aid in the prevention of coccidiosis caused by E. necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima.
      (b) Limitations. Do not feed to laying chickens; feed continuously as sole ration; do not feed to laying chickens; feed continuously as sole ration; in the absence of coccidiosis, the use of monensin with no withdrawal period may limit feed intake resulting in reduced weight gain; as zinc bacitracin provided by No. 054771 in §510.600(c) of this chapter; as monensin sodium.
      (vi) Amount per ton. Monensin, 90 to 110 grams; plus bambermycins, 1 to 2 grams.
         (a) Indications for use. For increased rate of weight gain and improved feed efficiency; and as an aid in the prevention of coccidiosis caused by E. necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima.
         (b) Limitations. Feed continuously as sole ration; do not feed to laying chickens; to be fed as a sole ration; in the absence of coccidiosis, the use of monensin with no withdrawal period may limit feed intake resulting in reduced weight gain; as zinc bacitracin provided by No. 054771 in §510.600(c) of this chapter; as monensin sodium.
(vii) [Reserved]
(viii) Amount per ton. Monensin, 90 to 110 grams plus oxytetracycline, 200 grams.
      (a) Indications for use. As an aid in the prevention of coccidiosis caused by Eimeria necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima; and for the control of complicated chronic respiratory disease (CRD or air-sac infection) caused by Mycoplasma gallisepticum and Escherichia coli.
      (b) Limitations. In the absence of coccidiosis, the use of monensin with no withdrawal period may limit feed intake resulting in reduced weight gain; do not feed to laying chickens; feed continuously as sole ration; as monensin sodium.
       (ix) Amount per ton. Monensin, 90–110 grams plus lincomycin, 2 grams.
          (a) Indications for use. For increase in rate of weight gain and improved feed efficiency; as an aid in the prevention of coccidiosis caused by E. necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima.
          (b) Limitations. Do not feed to laying chickens; to be fed as a sole ration; in the absence of coccidiosis, the use of monensin with no withdrawal period may limit feed intake resulting in reduced weight gain; as monensin sodium.
(xiii) Amount per ton. Monensin, 90 to 110 grams, plus 5 grams virginiamycin.

(a) Indications for use. As an aid in the prevention of coccidiosis caused by *E. necatrix*, *E. tenella*, *E. acervulina*, *E. brunetti*, *E. maxima*, and *E. mivati*; for increased rate of weight gain and improved feed efficiency.

(b) Limitations. Do not feed to laying chickens; feed continuously as sole ration; as monensin sodium provided by No. 000986 in §510.600 of this chapter; virginiamycin provided by No. 066104 in §510.600 of this chapter; trimethylammonium oxytetracycline provided by No. 066104 in §510.600(c) of this chapter.

(xiv) Amount per ton. Monensin, 90 to 110 grams, plus 500 grams chlortetracycline.

(a) Indications for use. As an aid in the reduction of mortality due to *Escherichia coli* infections susceptible to such treatment. As an aid in the prevention of coccidiosis caused by *Eimeria necatrix*, *E. tenella*, *E. acervulina*, *E. brunetti*, *E. mivati*, and *E. maxima*.

(b) Limitations. Do not feed to laying chickens; feed for 5 days as the sole ration; withdraw 24 hours before slaughter; in the absence of coccidiosis, the use of monensin with no withdrawal period may limit feed intake resulting in reduced weight gain; not to be fed continuously for more than 5 days; as monensin sodium; as chlortetracycline hydrochloride provided by Nos. 054771 and 043164 in §510.600(c) of this chapter.

(xv)–(xx) [Reserved]

(xxii) Amount per ton. Monensin, 90 to 110 grams; plus bacitracin methylene disalicylate, 4 to 50 grams.

(a) Indications for use. For increased rate of weight gain and improved feed efficiency; as an aid in the prevention of coccidiosis caused by *Eimeria necatrix*, *E. tenella*, *E. acervulina*, *E. brunetti*, *E. mivati*, and *E. maxima*.

(b) Limitations. Do not feed to laying chickens; feed continuously as sole ration; in the absence of coccidiosis, the use of monensin with no withdrawal period may limit feed intake resulting in reduced weight gain; as bacitracin zinc provided by No. 054771 in §510.600(c) of this chapter, as monensin sodium.

(xxiii) [Reserved]

(xxiv) Amount per ton. Monensin, 90 to 110 grams, plus bacitracin methylene disalicylate, 4 to 50 grams.

(xxv) Amount per ton. Monensin, 90 to 110 grams plus bacitracin, 4 to 50 grams.

(a) Indications for use. As an aid in the prevention of coccidiosis caused by *Eimeria necatrix*, *E. tenella*, *E. acervulina*, *E. brunetti*, *E. mivati*, and *E. maxima*; as an aid in the reduction of mortality due to air-sacculities (air-sac infection) caused by *Escherichia coli* sensitive to oxytetracycline.

(b) Limitations. Feed for 5 days as sole ration. Do not feed to laying chickens. Withdraw 24 hours before slaughter. As monensin sodium provided by No. 000986 in §510.600(c) of this chapter. As mono-alkyl (C₈-C₁₈) trimethylammonium oxytetracycline provided by No. 066104 in §510.600(c) of this chapter.

(xxvi)–(xxvii) [Reserved]

(xxviii) Amount per ton. Monensin, 90 to 110 grams, plus tylosin phosphate, 4 to 50 grams.

(a) Indications for use. As an aid in the prevention of coccidiosis caused by *Eimeria necatrix*, *E. tenella*, *E. acervulina*, *E. brunetti*, *E. mivati*, and *E. maxima*, for increased rate of weight gain, and improved feed efficiency.

(b) Limitations. Feed continuously as sole ration. In the absence of coccidiosis, the use of monensin with no withdrawal period may limit feed intake resulting in reduced weight gain. Do not feed to laying chickens. As monensin sodium and tylosin phosphate provided by No. 000986 in §510.600(c) of this chapter.

(xxix) Amount per ton. Monensin, 90 to 110 grams; plus bacitracin methylene disalicylate, 50 grams.

(a) Indications for use. As an aid in the prevention of coccidiosis caused by...
E. necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima; and as an aid in the prevention of necrotic enteritis caused or complicated by Clostridium spp. or other organisms susceptible to bacitracin.

(b) Limitations. Feed continuously as sole ration. Do not feed to laying chickens. As monensin sodium provided by No. 000986; bacitracin methylene disalicylate as provided by No. 054771 in §510.600(c) of this chapter.

§ 510.600(c) of this chapter.

(ii) Amount per ton. Monensin, 90 to 110 grams; plus bacitracin methylene disalicylate, 100 to 200 grams.

(a) Indications for use. As an aid in the prevention of coccidiosis caused by E. necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima; and as an aid in the control of necrotic enteritis caused or complicated by Clostridium spp. or other organisms susceptible to bacitracin.

(b) Limitations. Feed continuously as sole ration. Do not feed to laying chickens. As monensin sodium provided by No. 000986; bacitracin methylene disalicylate as provided by No. 054771 in §510.600(c) of this chapter.

(ii) Amount per ton. Monensin, 90 to 110 grams; plus bacitracin methylene disalicylate, 100 to 200 grams.

(a) Indications for use. For prevention of coccidiosis caused by Eimeria adenoeides, E. meleagrimitis, and E. gallopavonis, for increased rate of weight gain, and for improved feed efficiency.

(b) Limitations. For growing turkeys only; as monensin sodium; feed continuously as sole ration. Do not allow horses, other equines, mature turkeys or guinea fowl access to feed containing monensin. Ingestion of monensin by horses and guinea fowl has been fatal. Some strains of turkey coccidia may be monensin tolerant or resistant. Monensin may interfere with development of immunity to turkey coccidiosis. Bacitracin methylene disalicylate as provided by No. 054771 in §510.600(c) of this chapter.

(ii) Amount per ton. Monensin, 54 to 90 grams, and bacitracin methylene disalicylate, 200 grams.

(a) Indications for use. For the prevention of coccidiosis caused by Eimeria adenoeides, E. meleagrimitis, and E. gallopavonis, and as an aid in the control of transmissible enteritis complicated by organisms susceptible to bacitracin methylene disalicylate.

(b) Limitations. For growing turkeys only; as monensin sodium; feed continuously as sole ration. Do not allow horses, other equines, mature turkeys or guinea fowl access to feed containing monensin. Ingestion of monensin by horses and guinea fowl has been fatal. Some strains of turkey coccidia may be monensin tolerant or resistant. Monensin may interfere with development of immunity to turkey coccidiosis. Bacitracin methylene disalicylate as provided by No. 054771 in §510.600(c) of this chapter.

(iv) Amount per ton. Monensin, 54 to 90 grams, with virginiamycin, 10 to 20 grams.

(a) Indications for use. For the prevention of coccidiosis caused by Eimeria adenoeides, E. meleagrimitis, and E. gallopavonis, and for increased rate of weight gain and improved feed efficiency in growing turkeys.

(b) Limitations. For growing turkeys only. Feed continuously as sole ration. Do not allow horses, other equines, mature turkeys, or guinea fowl access to feed containing monensin. Ingestion of monensin by horses, mature turkeys,
and guinea fowl has been fatal. Some strains of turkey coccidia may be monensin tolerant or resistant. Monensin may interfere with development of immunity to turkey coccidiosis. Virginiamycin as provided by No. 066104 in §510.600(c) of this chapter.

Monensin may interfere with development of immunity to turkey coccidiosis. Virginiamycin as provided by No. 066104 in §510.600(c) of this chapter.

Some strains of turkey coccidia may be monensin tolerant or resistant. Feed continuously as sole ration. Feed only to cattle being fed in confinement for slaughter. For improved feed efficiency, and reduction of incidence of liver abscesses caused by Fusobacterium necrophorum and Arcanobacterium (Actinomyces) pyogenes.

(a) Indications for use. Cattle fed in confinement for slaughter: For improved feed efficiency; and reduction of incidence of liver abscesses caused by Fusobacterium necrophorum and Arcanobacterium (Actinomyces) pyogenes.

(b) Limitations. Feed only to cattle being fed in confinement for slaughter. Feed continuously as sole ration at the rate of 50 to 480 milligrams of monensin per head per day. Combination drug liquid Type B medicated feeds may be used to manufacture dry Type C medicated feeds and shall conform to mixing instructions as in 558.625(c) of

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this chapter. Tylosin provided by Nos. 000986 and 016592 in § 510.600(c) of this chapter.

(iii) Amount per ton. Monensin, 15 to 400 grams.

(a) Indications for use. Growing cattle on pasture or in dry lot (stocker and feeder cattle and dairy and beef replacement heifers): For increased rate of weight gain; for prevention and control of coccidiosis due to Eimeria bovis and E. zuernii.

(b) Limitations. For increased rate of weight gain, feed at a rate of 50 to 200 milligrams monensin per head per day in not less than 1 pound of feed or, after the 5th day, feed at a rate of 400 milligrams per head per day every other day in not less than 2 pounds of feed. For prevention and control of coccidiosis, feed at a rate of 0.14 to 0.42 milligram per pound of body weight per day, depending on severity of challenge, up to 200 milligrams per head per day. During first 5 days of feeding, cattle should receive no more than 100 milligrams per day in not less than 1 pound of feed.

(iv) Amount. Monensin at concentrations in free-choice Type C medicated feeds to provide 50 to 200 mg per head per day.

(a) Indications for use. Growing cattle on pasture or in dry lot (stocker and feeder cattle and dairy and beef replacement heifers): For increased rate of weight gain; for prevention and control of coccidiosis due to Eimeria bovis and E. zuernii.

(b) Limitations. During the first 5 days of feeding, cattle should receive no more than 100 milligrams per day. Do not mix with grain or other feeds. Monensin is toxic to cattle when consumed at higher than approved levels. Stressed and/or feed- and/or water-deprived cattle should be adapted to the pasture and to unmedicated supplement before using the monensin medicated supplement. The product’s effectiveness in cull cows and bulls has not been established. See paragraph (d) of this section for other required label warnings.

(v) [Reserved]

(vi) Amount per ton. Monensin, 25 to 400 grams.

(a) Indications for use. For improved feed efficiency; for prevention and control of coccidiosis due to E. bovis and E. zuernii.

(b) Limitations. Feed to mature reproducing beef cows. Feed as supplemental feed, either hand-fed in a minimum of 1 pound of feed or mixed in a total ration. For improved feed efficiency, feed continuously at a rate of 50 to 200 milligrams monensin per head per day. For prevention and control of coccidiosis, feed at a rate of 0.14 to 0.42 milligram per pound of body weight per day, depending upon severity of challenge, up to a maximum of 200 milligrams per head per day. During first 5 days of feeding, cattle should receive no more than 100 milligrams per head per day.

(vii) Amount per ton. Monensin, 10 to 40 grams.

(a) Indications for use. For prevention and control of coccidiosis due to E. bovis and E. zuernii.

(b) Limitations. For cattle fed in confinement for slaughter, feed at a rate of 0.14 to 0.42 milligram per pound of body weight per day, depending upon the severity of challenge, up to maximum of 480 milligrams per head per day.

(ix) [Reserved]

(x) Amount per ton. 1,620 grams monensin, USP.

(a) Indications for use. Growing cattle on pasture or in dry lot (stocker and feeder cattle and dairy and beef replacement heifers): For increased rate of weight gain; for prevention and control of coccidiosis due to Eimeria bovis and E. zuernii.

(b) Specifications. Use as free-choice Type C medicated feed formulated as mineral granules as follows:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percent</th>
<th>International feed No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monocalcium phosphate (21% phosphorus, 15% calcium)</td>
<td>29.49</td>
<td>6-01-082</td>
</tr>
<tr>
<td>Sodium chloride (salt)</td>
<td>24.37</td>
<td>6-04-152</td>
</tr>
<tr>
<td>Dried cane molasses</td>
<td>20.0</td>
<td>4-04-695</td>
</tr>
<tr>
<td>Ground limestone (33% calcium) or calcium carbonate (38% calcium)</td>
<td>13.75</td>
<td>6-02-632</td>
</tr>
<tr>
<td>Cane molasses</td>
<td>3.0</td>
<td>4-04-696</td>
</tr>
<tr>
<td>Processed grain by-products (as approved by AAFCO)</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td>Vitamin/trace mineral premix</td>
<td>2.5</td>
<td></td>
</tr>
</tbody>
</table>

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(c) Limitations. Feed at a rate of 50 to 200 milligrams per head per day. During the first 5 days of feeding, cattle should receive no more than 100 milligrams per day. Do not feed additional salt or minerals. Do not mix with grain or other feeds. Monensin is toxic to cattle when consumed at higher than approved levels. Stressed and/or feed-and/or water-deprived cattle should be adapted to the pasture and to unmedicated mineral supplement before using the monensin mineral supplement. The product’s effectiveness in cull cows and bulls has not been established.

(xii) Amount per ton. Monensin, 10 to 200 grams.

(A) Indications for use. For increased milk production efficiency (production of marketable solids-corrected milk per unit of feed intake) in dairy cows.

(B) Limitations. Feed continuously to dry and lactating dairy cows in a total mixed ration (“complete feed”). See special labeling considerations in paragraph (d) of this section.

(xiv) Amount per ton. Monensin, 11 to 400 grams.

(A) Indications for use. For increased milk production efficiency (production of marketable solids-corrected milk per unit of feed intake) in dairy cows.

(B) Limitations. Feed continuously to dry and lactating dairy cows in a component feeding system (including top dress). The Type C medicated feed must be fed in a minimum of 1 lb of feed to provide 185 to 660 mg/head/day monensin to lactating cows or 115 to 410 mg/head/day monensin to dry cows. See special labeling considerations in paragraph (d) of this section.

(4) Replacement chickens intended for use as cage layers—(i) Amount per ton. Monensin, 90 to 110 grams.

(a) Indications for use. As an aid in the prevention of coccidiosis caused by E. necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima; for increased rate of weight gain, and improved feed efficiency.

(b) Limitations. Feed continuously as sole ration. Do not feed to laying chickens. As monensin sodium provided by 06086; bacitracin methylene disalicylate as provided by 054771 in §510.600(c) of this chapter.

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(iii) Amount per ton. Monensin, 90 to 110 grams; plus bacitracin methylene disalicylate, 50 grams.

(a) Indications for use. As an aid in the prevention of coccidiosis caused by E. necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima; and as an aid in the prevention of necrotic enteritis caused or complicated by Clostridium spp. or other organisms susceptible to bacitracin.

(b) Limitations. Feed continuously as sole ration. Do not feed to laying chickens. As monensin sodium provided by 000986; bacitracin methylene disalicylate as provided by 054771 in §510.600(c) of this chapter.

(iv) Limitations. Do not feed to laying chickens; feed continuously as sole ration; as monensin sodium; do not feed to chickens over 16 weeks of age. Do not feed to laying chickens. As monensin sodium provided by 000986; bacitracin methylene disalicylate as provided by 054771 in §510.600(c) of this chapter.

(v) Amount per ton. Monensin, 90 to 110 grams; plus bacitracin methylene disalicylate, 100 to 200 grams.

(a) Indications for use. As an aid in the prevention of coccidiosis caused by E. necatrix, E. tenella, E. acervulina, E. brunetti, E. mivati, and E. maxima; and as an aid in the control of necrotic enteritis caused or complicated by Clostridium spp. or other organisms susceptible to bacitracin.

(b) Limitations. Feed continuously as sole ration. Do not feed to chickens over 16 weeks of age. Do not feed to laying chickens. To control necrotic enteritis, start medication at first clinical signs of disease; vary dosage based on the severity of infection; administer continuously for 5 to 7 days or as long as clinical signs persist, then reduce bacitracin to prevention level (50 grams per ton). As monensin sodium provided by 000986; bacitracin methylene disalicylate as provided by 054771 in §510.600(c) of this chapter.

(vi)–(vii) [Reserved]

(5) Bobwhite quail—(i) Amount per ton. Monensin, 73 grams.

(ii) Indications for use. For the prevention of coccidiosis in growing bobwhite quail caused by Eimeria dispersa and E. Lettyae.

(iii) Limitations. Feed continuously as the sole ration; do not allow horses, other equines, mature turkeys, or guinea fowl access to feed containing monensin.


(a) Indications for use. For the prevention of coccidiosis caused by Eimeria crandallis, E. christensenii, and E. ninakohlyakimovae.

(b) Limitations. (1) Feed continuously. Feed only to goats being fed in confinement. Do not feed to lactating goats. Type C feeds may be manufactured from monensin liquid Type B feeds. The liquid Type B feeds have a pH of 4.3 to 7.1 and their labels must bear appropriate mixing directions, as defined in paragraph (d)(12) of this section. See special labeling considerations in paragraph (d) of this section.

(2) An approved physically stable monensin liquid feed will not be subject to the requirements for mixing directions defined in paragraph (d)(12) of this section. A manufacturer may secure approval of a physically stable liquid feed by:

(i) Either filing an NADA for the product or by establishing a master file containing data to support the stability of its product;

(ii) Authorizing the agency to reference and rely upon the data in the master file to support approval of a supplemental NADA to establish physical stability; and

(iii) Requesting No. 000986 in §510.600(c) of this chapter to file a supplemental NADA to provide for the use of its monensin Type A article in the manufacture of the liquid feed specified in the appropriate master file. If the data demonstrate the stability of the liquid feed described in the master file, the agency will approve the supplemental NADA. The approval will provide a basis for the individual liquid feed manufacturer to manufacture the liquid medicated feed under a medicated feed mill license described in the master file. A manufacturer who seeks to market a physically unstable monensin liquid feed with mixing directions different from the standard established in paragraph (d)(12) of this section may also follow this procedure.

(ii) [Reserved]

(7) Free-choice feeds—(i) Amount. 150 milligrams per pound of protein-mineral block (0.033 percent).

(a) [Reserved]
§ 558.360 Morantel tartrate.

(a) Approvals. Type A medicated articles: 88 grams per pound to 066104 in § 510.600(c) of this chapter.

(b) Related tolerances. See § 556.425 of this chapter.

(c) Special considerations. (1) Do not use in Type B or Type C medicated feeds containing bentonite.

(2) Consult your veterinarian before using in severely debilitated animals and for assistance in the diagnosis, treatment, and control of parasitism.