Food and Drug Administration, HHS

just before and/or after treatment. Resume regular feeding 4 to 6 hours after treatment. Treatment of debilitated or anemic animals is contraindicated. Do not administer to animals that are or were recently affected with colic, diarrhea, or infected with a serious infectious disease. As with most anthelmintics, drastic cathartics or other gastrointestinal irritants should not be administered in conjunction with this drug. Animals in poor condition or heavily parasitized should be given one half the recommended dose and treated again in 2 or 3 weeks. Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism. 1

[45 FR 52782, Aug. 8, 1980]

§ 520.1802c Piperazine-carbon disulfide complex with phenothiazine suspension.

(a) Specifications. Each fluid ounce contains 5 grams of piperazine-carbon disulfide complex and 0.83 gram of phenothiazine.

(b) Sponsor. See 000009 in § 510.600(c) of this chapter.

(c) Conditions of use: Horses and ponies—(1) Amount. One fluid ounce per 100 pounds of body weight.

(2) Indications for use. For removing ascarids (large roundworms, *Parascaris equorum*), bots (*Gastrophilus* spp.), small strongyles, and large strongyles (*Strongylus* spp.).

(3) Limitations. See § 520.1802a(c)(3).

[45 FR 52782, Aug. 8, 1980]

§ 520.1803 Piperazine citrate capsules.

(a) Specifications. Piperazine citrate capsules contain piperazine citrate equivalent to 140 milligrams of piperazine base in each capsule.

(b) Sponsor. See No. 021091 in § 510.600(c) of this chapter.

(c) Conditions of use. (1) It is used in dogs and cats for the removal of large roundworms (*Toxocara canis* and *Toxascaris leonina*). 1

(ii) Cats. It is used for the removal of large roundworms (ascarids) *Toxocara mystax* and *Toxacaris leonina*. 1

(3) Limitations. Administer in animal’s food or milk. For animals up to 1 year of age administer every 2 or 3 months; for animals over 1 year old, administer periodically as necessary. Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism. 1


§ 520.1805 Piperazine phosphate with thenium closylate tablets.

(a) Specifications. Each scored tablet contains the equivalent of 250 milligrams piperazine hexahydrate (as piperazine phosphate) and 125 milligrams thenium (as thenium closylate) or 500 milligrams piperazine hexahydrate (as

1These conditions are NAS/NRC reviewed and deemed effective. Applications for these uses need not include effectiveness data as specified by § 514.111 of this chapter, but may require bioequivalency and safety information.
§ 520.1806 Piperazine phosphate.

(a) Specifications. Each milliliter of suspension contains piperazine monohydrochloride equivalent to 33.5 milligrams (mg) piperazine base.

(b) Sponsor. See No. 000061 in §510.600(c) of this chapter.

(c) Conditions of use—(1) Amount. Administer orally to dogs as follows:

<table>
<thead>
<tr>
<th>Animal weight (lb)</th>
<th>375 mg</th>
<th>750 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 but less than 5</td>
<td>½</td>
<td></td>
</tr>
<tr>
<td>5 but less than 10</td>
<td>1 ½</td>
<td></td>
</tr>
<tr>
<td>10 or heavier</td>
<td>2 ½</td>
<td>1</td>
</tr>
</tbody>
</table>

(2) Indications for use. For removal of immature (fourth stage larvae) and adult hookworms (Ancylostoma caninum, A. braziliense, and Uncinaria stenocephala) and ascarids (Toxocara canis) from weaned pups and adult dogs.

(3) Limitations. Do not use this product to treat dogs weighing less than 2 pounds, unweaned pups, or pups under 5 weeks of age. Maximum efficacy against hookworms necessitates two doses in 1 day of treatment. The interval between the doses should be not less than 4 hours or more than 24 hours. Do not permit dog to chew tablet. Do not feed milk or other fatty foods during treatment. Retreatment may be needed in 7 to 28 days as determined by laboratory fecal examinations or in animals kept in known contaminated quarters. Federal law restricts this drug to use by or on the order of a licensed veterinarian.


§ 520.1807 Piperazine.

(a) Specifications. A soluble powder or liquid containing piperazine dihydrochloride or dipiperazine sulfate, equivalent to 17, 34, or 230 grams of piperazine per pound or 100 milliliters.

(b) Sponsor. See 015565 in §510.600(c) of this chapter.

(c) Related tolerances. See §556.513 of this chapter.

(d) Conditions of use—(1) Chickens—(i) Amount. 50 milligrams per bird under 6 weeks, 100 milligrams per bird over 6 weeks.

(ii) Indications for use. For removal of large roundworm (Ascaridia spp.).

(iii) Limitations. For use in drinking water or feed. Use as sole source of drinking water. Prepare fresh solution daily. Use as 1-day single treatment. Withdraw 14 days prior to slaughter. Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism.

(2) Turkeys—(i) Amount. 100 milligrams per bird up to 12 weeks and 200 milligrams per bird over 12 weeks.

(ii) Indications for use. For removal of large roundworm (Ascaridia spp.).

(iii) Limitations. For use in drinking water or feed. Use as sole source of drinking water. Prepare fresh solution daily. Use as 1-day single treatment. Withdraw 14 days prior to slaughter. Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism.

(3) Swine—(i) Amount. 50 milligrams per pound of body weight.

(ii) Indications for use. For removal of large roundworm (Ascaris suum) and nodular worms (Oesophagostomum spp.).

(iii) Limitations. For use in drinking water or feed. Use as sole source of drinking water. Prepare fresh solution