

## **Sheep: Anthelmintics & Ectoparasite Control:**

**Green** = low risk to dung fauna; **Yellow** = modest risk; **Red** = high risk, very toxic

<b>Group:</b>	<b>Active Ingredient:</b>	<b>Application Method:</b>	<b>Target Parasites:</b>
<b>Benzimidazoles:</b>			
	Albendazole	Oral-Drench	Roundworm; Lungworm; Tapeworm; Fluke (adult)
	Oxfendazole	Oral-Drench	Roundworm; Lungworm; Tapeworm
	Fenbendazole	Oral-Drench	Roundworm; Lungworm; Tapeworm
	Ricobendazole	Oral-Drench	Roundworm; Lungworm; Tapeworm; Fluke (adult)
<b>Imadazothiazoles:</b>			
	Levamisole	Oral Drench	Roundworm; Lungworm
	Levamisole	Injection	Roundworm; Lungworm; Parasitic Gastroenteritis
<b>Macrocyclic Lactones:</b>			
	Abamectin	Oral-Drench	Roundworm; Lungworm
	Ivermectin	Oral-Drench	Roundworm; Lungworm; Nasal-Bot;
	Ivermectin	Injection	Roundworm; Lungworm; Scab-Mites; Nasal-Bot; Lice
	Moxidectin	Oral-Drench	Roundworm; Lungworm
	Moxidectin	Injection	Roundworm; Lungworm; Scab-Mites; Nasal-Bot
	Doramectin	Injection	Roundworm; Lungworm; Scab-Mites; Nasal-Bot
<b>Amino-acetonitrile:</b>			
	Monepantel	Oral-Drench	Roundworm
<ul style="list-style-type: none"> <li>• Consultation with Vets suggests they would prefer Monepantel is not used as a first choice active ingredient; but is instead used as a back-up treatment for livestock with known resistance issues with other products.</li> </ul>			
<b>Spiroindoles:</b>			
	Derquantel	Oral-Drench	Roundworm; Lungworm
<ul style="list-style-type: none"> <li>• There is no environmental toxicity information for Derquantel at this time, but it</li> </ul>			

should certainly be kept away from the freshwater environment. It is, however, used as a dual-action product with other known toxic active ingredients.			
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<b>Flukicides:</b>			
	Triclabendazole	Oral Drench	Fluke (some or all stages)
	Oxyclozanide	Oral Drench	Fluke (adult)
	Closantel	Injection	Fluke
<b>Synthetic Pyrethroids:</b>			
	Deltamethrin	Spot On	Ticks; Lice; Blow-Fly; Kegs
	Alphacyper-methrin	Pour On	Flies; Lice
	Cypermethrin	Pour-On	Ticks; Lice; Blow-Fly
<b>Organophosphates:</b>			
	Diazinon	Dip	Various external parasites, inc. Mites
<b>Insect Growth Regulators:</b>			
	Dicyclanil	Pour-On	Blow-Fly
	Diclazuril	Oral-Drench	Coccidiosis

**Note:** All these active ingredients are being judged (based on external scientific research which is on the record) on their risk to dung-fauna, (which help break down livestock excreta in the field or in a heap). Most of the active ingredients are, however, very toxic to freshwater life – both invertebrates, and fish. These products will also add to the total pesticide burden (along with other agricultural and horticultural sources), which has to be removed from drinking-water sources before it can be used by humans. So it is important not to let any of these products enter local watercourses or ponds; either directly through livestock access, or via ditches or connecting drains.

**Disclaimer:** This table is for useful guidance only; and Cornwall Wildlife Trust does not claim to be an animal-health practitioner. Neither does it have a financial relationship with any animal-health product manufacturers. So it is advisable to check your product choices suit your requirements, and if in doubt consult with a Vet.