



Eprinomectin PRODUCT DATA SHEET

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Product Name:	Eprinomectin
Product Number:	E050
CAS Number:	123997-26-2
Molecular Formula:	$C_{50}H_{75}NO_{14}$
Molecular Weight:	914.1
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Eprinomectin is a mixture of eprinomectins B1a and B1b in a 9:1 ratio, produced from a mixture of avermectin B1a and B1b. Eprinomectin is used commercially as a topical endectocide (insecticide, miticide and nematocide) for cattle, including lactating dairy cows. Like all avermectins and milbemycins, eprinomectin acts by binding to parasite glutamate-gated chloride ion channels and disrupts neurotransmission leading to paralysis and death of the parasite, mite or insect.</p> <p>Eprinomectin is soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</p>
References:	<p>Eprinomectin: a novel avermectin for use as a topical endectocide for cattle. Shoop W. L. Int. J.Parasitol. 1996, 26, 1237.</p>

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