



# MAURITIUS SUGAR INDUSTRY RESEARCH INSTITUTE

## Recommendation Sheet

November 2005, No. 153

### Dinamic + Krismat: a new herbicide treatment for weed management strategies in sugar cane

MSIRI has been developing different weed management strategies to reduce costs of weed control in sugar cane. Studies based on critical periods of weed competition in sugar cane have shown that the first herbicide treatment after harvest could be delayed a few weeks until the emergence of the first flush of weeds. However, this approach can be implemented only if the herbicide treatment used controls all emerged weeds, provides a good residual activity and is tolerated by young cane shoots.

In this context, MSIRI has evaluated herbicides **Dinamic** and **Krismat**, which are both formulated as water-dispersible granules (WG). **Dinamic** contains 700 g of amicarbazone, whereas **Krismat** contains 18.5 g of trifloxysulfuron and 731.5 g of ametryn per kg of product.

Trials have shown that:

- both herbicides provides good pre- and post-emergence control of most broad-leaved weeds
- **Krismat** is effective against grasses such as *Paspalum* spp. (e.g. herbe cheval, herbe duvet) and sedges such as *Cyperus rotundus* (herbe à oignons) and *Kyllinga* spp. (e.g. gros and petit mota)
- **Dinamic** is particularly effective against some grasses, including *Digitaria horizontalis* (gros meinki)
- tank-mixing **Dinamic** and **Krismat** improves the spectrum of control
- both herbicides are non-volatile and are well tolerated by sugar cane at the recommended rates.

#### Recommendation

- The two herbicides are recommended as a tank-mix as follows:

Herbicides	Recommended rates	
	kg / ha	kg / arp
<b>Dinamic</b>	<b>1.25 - 1.5</b>	<b>0.53 - 0.63</b>
+	+	+
<b>Krismat</b>	<b>2.0</b>	<b>0.84</b>

- An adjuvant should be added to the above tank-mix
- Spraying should be carried out when weeds are relatively young
- Higher rates of **Dinamic** should be used when a longer residual activity is required.

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