

RECOMMENDATION SHEET No. 192, February 2018

Herbicide mesotrione for weed control in sugarcane

Mesotrione is an active ingredient which inhibits the p-Hydroxyphenyl pyruvate dioxygenase (HPPD), and ultimately affects carotenoid biosynthesis. It is formulated as a 10% soluble concentrate (SC) and has been tested for general pre- and early post-emergence weed control in plant and ratoon cane as an alternative to atrazine.

Trials carried out by the MSIRI have revealed mesotrione to be as effective as atrazine against broad-leaved weeds, and is well tolerated by the different sugarcane varieties. The herbicide mesotrione is being recommended with one of the following tank-mix partners for weed control in sugarcane:

Situation	Mesotrione	Tank-mix Partner
<i>Pre-emergence of weeds</i>	1.0 – 1.5 L/ha (425 - 625 ml/arpent)	- oxyfluorfen - s-metolachlor - tebuthiuron
<i>Early post-emergence of weeds</i>	1.0 L/ha (425 ml/arpent)	- hexazinone + 2,4-D amine salt or fluroxypyr - amicarbazone + 2,4-D amine salt or fluroxypyr - s-metolachlor + 2,4-D amine salt or fluroxypyr - tebuthiuron + 2,4-D amine salt or fluroxypyr

Notes:

- *higher rates of mesotrione to be applied where longer residual activity is required*
- *the rates of the tank-mix partners are specified in a spreadsheet on Herbicide Recommendations which may be downloaded from our website (www.msiri.mu)*
- *fluroxypyr should be opted whenever vine weeds or shrubs are predominant*

Your attention is drawn to the fact that these guidelines and/or advices are restricted to the purpose for which they are recommended only.

MCIA Board shall not be responsible for any act that may arise outside the purview of these guidelines or advices.