

TRIAZINE TOLERANT ROUNDUP READY® CANOLA HYBRID

Spray application guide

Triazine Tolerant Roundup Ready canola allows you to spray Roundup Ready Herbicide with PLANTSHIELD® by Monsanto over the top (OTT) of your canola. With the additional flexibility to spray atrazine and/or simazine pre and post-emergent.

SPRAY APPLICATION WINDOW

Pre-emergent		Post-emergent			
		Cotyledon	2 true leaf	4 true leaf	6 true leaf
Roundup Ready Herbicide with PLANTSHIELD® by Monsanto	Refer to page 2: Pre-plant knockdown residual herbicides	Roundup Ready Herbicide with PLANTSHIELD® by Monsanto	Second spray Roundup Ready Herbicide with PLANTSHIELD® by Monsanto		No approved Roundup Ready Herbicide with PLANTSHIELD by Monsanto plus atrazine tank mixes
Single application OR	simazine 1.1–2.2 kg/ha atrazine 1.1–2.2 kg/ha	or atrazine 0.5–1.1 kg/ha			
Split application	simazine 0.5–1.1 kg/ha atrazine 0.5–1.1 kg/ha	atrazine 0.5–1.1 kg/ha			

Roundup Ready Herbicide with PLANTSHIELD by Monsanto

Roundup Ready Herbicide with PLANTSHIELD by Monsanto should not be applied after the 6th true leaf stage or after bud formation as it can have unpredictable effects, which may include delayed maturity and reduced yields.

- Applications can be made from crop emergence to 6 true leaf stage
- Maximum of two applications of Roundup Ready Herbicide with PLANTSHIELD by Monsanto per crop
- Each application must be 0.9 kg/ha
- Sequential applications must be 14 days apart with 2 new leaves of growth
- All applications must be made according to label directions.

Simazine and Atrazine

Single application

- Pre-emergent: atrazine or simazine or a combination of both 1.1–2.2 kg/ha
- Post-emergent: atrazine only 0.5–1.1 kg/ha

OR Split Application

- Pre-emergent: atrazine or simazine or a combination of both 0.5–1.1 kg/ha

PLUS

- Post-emergent: atrazine only 0.5–1.1 kg/ha

Note: Based on atrazine and simazine formulations of 900 g/kg. The addition of 0.5–1% v/v crop oil will enhance post emergence

Know your paddock and use the right tool, using the right rate at the right time. Consider the following when planning your in crop weed control program:

- Early season weed competition can reduce yield potential in canola.
- Always consult the Roundup Ready Herbicide with PLANTSHIELD by Monsanto label for approved tank mixes for in crop use on Triazine Tolerant Roundup Ready canola hybrids.
- All applications must be made according to label directions of Roundup Ready Herbicide with PLANTSHIELD by Monsanto, atrazine or simazine.
- There are currently no approved tank mix combinations of Roundup Ready Herbicide with PLANTSHIELD by Monsanto with any formulations of atrazine or simazine for over the top use in Triazine Tolerant Roundup Ready canola hybrids.

RECOMMENDATIONS	ADDITIONAL INFORMATION	
BEFORE PLANTING	<p>Know your paddock history. Use the right tool, using the right rate at the right time.</p>	<p>Plan your weed control program to suit the weed spectrum and pressure for each individual paddock.</p> <p>Growers and advisors need to know weed, cropping, herbicide histories and resistant status of individual paddocks in order to develop an Integrated Weed Management (IWM) Plan.</p> <p>Implementation of an IWM is the key to the long term sustainability of the Roundup Ready Triazine Tolerant canola weed control system.</p>
PRE-PLANT KNOCKDOWN	<p>Always start clean by planting into a weed-free paddock using either tillage or a herbicide application.</p> <p>Consider using other registered products as part of an IWM strategy.</p>	<p>Alternative pre-plant knockdown herbicides include: Gramoxone® (paraquat) and Sprayseed® (paraquat + diquat).</p>
RESIDUAL HERBICIDES	<p>Other registered residual herbicides should be used where appropriate as part of IWM within a TT-RR canola system.</p>	<p>Alternative residual herbicides include: TriflurX® (trifluralin) and Stomp (pendimethalin) for annual ryegrass control, Dual Gold® (metolachlor) for toadrush control, Avadex Xrta® (tri-allylate) for ryegrass and wild oats control.</p>
IN-CROP WEED CONTROL (TRIAZINE)	<p>Ideally apply atrazine or simazine pre-emergent when there is adequate soil moisture and weeds are small.</p> <p>Post-emergent atrazine applications should be made at or before weeds reach the two-leaf stage.</p>	<p>Atrazine is generally applied four to six weeks after sowing if a second flush of weeds emerge.</p> <p>Always make all spray applications according to label guidelines.</p>
IN-CROP WEED CONTROL (Roundup Ready Herbicide with PLANTSHIELD by Monsanto)	<p>Target the first application of Roundup Ready Herbicide with PLANTSHIELD by Monsanto where weeds are at or prior to the two leaf stage.</p> <p>The best weed control is generally achieved with two Roundup Ready Herbicide with PLANTSHIELD by Monsanto applications.</p> <p>Applications can be made from crop emergence to the 6 true leaf stage (prior to bud formation).</p>	<p>Early season weed competition can reduce yield potential in canola.</p> <p>There must be 2 new leaves of growth and 14 days between sequential applications of Roundup Ready Herbicide with PLANTSHIELD by Monsanto.</p> <p>Always make all spray applications according to label guidelines.</p>
IN-CROP WEED CONTROL (ALTERNATIVE HERBICIDES)	<p>Consider using Archer® (clopyralid) as a tank-mix with Roundup Ready Herbicide with PLANTSHIELD by Monsanto where volunteer legumes are present.</p> <p>Consider using Select® (clethodim) to control ryegrass.</p>	<p>Archer® provides very good control of volunteer grain and pasture legumes which are common weeds in canola growing regions.</p> <p>Many group A herbicides such as Select® are registered for ryegrass control in canola, however this will not be effective where Group A herbicide resistance is present. Select® can provide an option for grass weed germinations outside the Roundup Ready application window.</p>
APPLICATION (Roundup Ready Herbicide with PLANTSHIELD by Monsanto)	<p>Water rate: Use 50–80 litres per hectare.</p> <p>Spray quality: Select nozzle and pressure settings to deliver a coarse spray quality.</p> <p>Spray conditions: Check wind speed, direction and delta T to ensure suitable spray conditions.</p>	<p>A coarse spray quality will reduce, but not eliminate, the level of driftable fines which therefore reduces the risk of movement off target.</p>
APPLICATION (TRIAZINE)	<p>Water Rate: Use 50–100 litres per hectare.</p> <p>Post-emergence applications with atrazine should be made with a spray oil, eg. Uptake, to improve weed control.</p>	<p>For best results apply to bare moist soil, either immediately before seeding or as a pre-emergence treatment at or within 7 days of planting.</p>

For further information you can visit www.roundupreadycanola.com.au or contact your Roundup Ready canola Technology Service Provider (TSP), your local Sinochem Territory Manager, or your Pacific Seeds Territory Manger. Visit www.pacificseeds.com.au

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