Dow AgroSciences

Solutions for the Growing World



TECHNICAL MANUAL 2013

Lontrel™ ADVANCED

HERBICIDE

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EXCELLENT RESULTS

Lontrel™ Advanced Herbicide is a soft to the crop, low resistance risk option for the control of many key broadleaf weeds in winter cereals, canola, pastures and fallows.

It is the first choice for the control of capeweed, thistles, vetch and volunteer legumes. It can be used alone, or in a mixture with knockdown herbicides, or as a spike in post-emergent sprays.

Lontrel Herbicide (300gai/L) was first introduced into the Australian market in the early 80's and quickly became a leading brand for Dow AgroSciences.

Lontrel Advanced has now been launched and is the result of requests by growers to increase the AI loading in the Lontrel formulation. With Lontrel Advanced we were able to **double** the AI making it an easy conversion by halving the old Lontrel Herbicide (300gai/L) rate.

Since its introduction in mid-2012, farmers across Australia have successfully used Lontrel Advanced with **excellent results.**

All respondents found Lontrel Advanced to be as fast if not faster than Lontrel Herbicide (300gai/L), particularly during the first few weeks.

APPLICATION RESULTS





1) Untreated, 6WAA and 8WAA




2) Untreated and 8WAA





3) Untreated, 6WAA and 8WAA

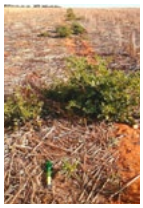



4) 6WAA




5) 6WAA





6) Untreated, 6WAA and missed strip

1) 150mL Lontrel Advanced + 600g Gesaprim + 0.5% Uptake
2) 100mL Lontrel Advanced + 500mL MCPA
3) 150mL Lontrel Advanced + 500g Tralkoxydim + adjuvant
4) 50mL Lontrel Advanced + 250mL Tilt + 100mL Topik + 500mL LVE Agritone + 0.5% Hasten
5) 50mL Lontrel Advanced + 800mL Amine 625 + 5g Ally + 1% adjuvant
6) 75mL Lontrel Advanced + glyphosate + adjuvant

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GREATER FLEXIBILITY

Key Improvements with Lontrel Advanced include:

- Faster brownout, particularly in the first few weeks
- Greater flexibility of application on cereals and canola
- Better compatibility
- Double active ingredient (AI) loading
- Better viscosity at low temperatures via our patented dimethylammonium (DMA) salt combination

Greater Flexibility of Use due to a wider window of application

The Lontrel Herbicide (300gai/L) label restricts application in cereal after 1st node (GS31), where as Lontrel Advanced maybe applied as late as booting.

Hub Miller, Dow AgroSciences' Commodity Herbicide Business Manager explained "This will provide greater flexibility and an opportunity for excellent late season weed control, particularly in mixes with MCPA, and to control fleabane."

The canola WHP has been changed from 12 weeks, to not required when used as directed.

"This change will allow farmers to harvest when the crop is ready rather than waiting for 12 weeks after application, which is one less thing for farmers to worry about during harvest" added Mr Miller.

Please refer to the full product label for rates and application information. Please also note that use of Lontrel Advanced is subject to plantback periods.



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WIDER COMPATIBILITY

Lontrel Advanced is more than just double the active ingredient, it is a whole new product, with a patented emulsification package. As a result of these improvements, as well as extensive laboratory testing, it has an expanded compatibility list:



Compatible		Similiar to Lontrel Herbicide (300gai/L)
Affinity® Force + MCPA Amine	Precept® + Hasten®	Achieve™
Ally®	Ripper™480	Atlantis® OD + Hasten®
Ally® + MCPA LVE	Select®	Atrazine
Amine 625	Starane™ Advanced	Bromicide® MA
Axial®	Tigrex®	Diuron
Bromicide® 200	Topik® 240EC	Simazine
BS-1000	Tordon™ 242	Simazine + Verdict™ + Uptake™
Conclude™ + Uptake™	Trojan®	Simazine + Verdict™ 520
Crusader™ + BS-1000	Velocity® + Hasten®	
Glean®	Velocity® + Uptake™	
Hussar® + Hasten®	Verdict™ 520	
Igran 500	Wildcat®	
MCPA Amine		
MCPA LVE		

In general, the products that Lontrel Herbicide (300gai/L) is compatible with are also compatible with Lontrel Advanced.

Please remember that physical compatibility in the lab does not always translate into biological compatibility in the field.

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IMPROVED FORMULATION

Farmers continually express their desire for more concentrated formulations, particularly for those products that are used regularly and/or in high volumes. Increasing the active ingredient of Lontrel Herbicide (300gai/L) has been an ongoing concern for us for many years, and we are delighted to be launching this exceptional formulation this year.

We were able with this formulation to **double** the AI, making it an easy conversion of halving the Lontrel Herbicide (300gai/L) rate. This means half as many drums to transport, pour and dispose of.

This is what some agronomists have reported:

"More concentrated product is better for logistics with the volumes we've handled."

"Great product. It is very good to have a concentrated product, less drums. Great."

"Love concentrated products due to large tank size and amount of product required."

"Great to have a product so concentrated due to our large boom - it makes it a lot easier."

"Was easy to use and lower use rate was good. Mixed well."

What is truly exciting about this formulation is that normally when you increase the active ingredient ratio in a formulation, the solution becomes more viscous and difficult to work with – difficult to pour, difficult to mix and difficult to get out of commercial spray units.

Lontrel Advanced has **twice** the amount of active in it, but is **half** as viscous at 5 degrees than the Lontrel Herbicide (300gai/L) formulation. This makes this formulation uniquely easier to pour, mix and pump at low winter temperatures. Exactly what farmers have been asking for, but rarely achieved in a product - a great breakthrough for our production chemists.

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Confidence in a drum

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