



## **Pardner Herbicide Evaluation Report for Category B Streamlined, Subcategory B.3.10 and B.3.11 Application**

**Application Number:** 2016-1865  
**Application:** Category B.3.10 and B.3.11 (new or changes to product label – tank mixes and new pests)  
**Product:** Pardner Herbicide  
**Registration Number:** 18001  
**Active ingredients (a.i.):** 280 g/L bromoxynil  
**PMRA Document Number:** 2675394

### **Background**

Pardner Herbicide containing 280 g/L bromoxynil is registered for selective post-emergence control of broadleaf weeds in small grain cereals, flax, corn, canary seed, garlic, onion, carrot, seedling and established alfalfa, seedling grasses, forage and grain sorghum, forage and grain millet, as a pre-seed / pre-plant application prior to planting canola, and zero till. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

### **Purpose of Application**

The purpose of this application was as follows:

1. Amend the ‘Pre-seed / Pre-plant Application Prior to Seeding Canola’ section of the label to include the following glyphosate salts (in addition to the presently labelled potassium and isopropylamine salts) when tank mixing with Pardner Herbicide: **dimethylamine and diammonium**.
2. Amend the ‘Weeds Controlled’ section for ‘Pre-seed / Pre-plant Application Prior to Seeding Canola’ to include **suppression of kochia (1-5 cm high), including glyphosate resistant biotypes**.
3. Amend the ‘Weeds Controlled’ section for ‘Pre-seed / Pre-plant Application Prior to Seeding Canola’ to include a **sequential post-emergence application of Liberty 150 SN (in canola hybrids that have the Liberty Link trait) for improved control of kochia including glyphosate-resistant bio-types, ALS-resistant (Group 2) biotypes and auxinic herbicide-resistant (Group 4) biotypes**.

4. Amend the 'Minimum or Zero Till' section of the label to include the following glyphosate salts (in addition to the presently labelled potassium and isopropylamine salts) when tank mixing with Pardner Herbicide: **dimethylamine and diammonium**.
5. Amend the 'Weeds Controlled' section for 'Minimum or Zero Till' to include a **suppression claim for glyphosate resistant kochia**.

### **Chemistry, Health, and Environmental Assessments**

A chemistry assessment was not required since there was no change to product chemistry. Health and Environmental assessments were not required since the use pattern, including host crops, application rates and timings of the component products remain unchanged.

### **Value Assessment**

Kochia is a prolific seed producer, and is capable of spreading seed quickly over wide distances. When left uncontrolled, kochia can cause significant yield losses. Furthermore, kochia has evolved resistance to ALS-inhibitors (Group 2 herbicides), glyphosate (Group 9 herbicides) and more recently to fluroxypyr (Group 4 herbicides) in the Canadian Prairies. The provision of additional weed control options for kochia will benefit Canadian growers that have to contend with this weed in their fields.

Value information in the form of greenhouse and field trial data as well as scientific rationales was submitted for review. Including kochia as a weed that will be suppressed by the tank mix application of Pardner Herbicide + glyphosate prior to planting canola or in minimum or zero till situations was supported. Furthermore, permitting the use of glyphosate products that contain dimethylamine and diammonium salts of glyphosate when tank mixing with Pardner Herbicide and applying prior to planting canola or in minimum or zero till situations was also supported.

### **Conclusions**

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Pardner Herbicide to include kochia as a weed that will be suppressed by the tank mix application of Pardner Herbicide + glyphosate (including products that contain dimethylamine and diammonium salts) prior to planting canola or in minimum or zero till situations.

## **Reference**

### List of Studies/Information Submitted by Registrant

2628258	2016, VALUE ASSESSMENT of a Pardner + Glyphosate Herbicide Tank-mixture applied Pre-seeding to Canola for Control of Glyphosate-resistant Kochia, DACO: 10.1.
2628260	2016, Efficacy Trials, DACO: 10.2.3.

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