

2015 Bayer CropScience Support of Off-label Tank Mixes

To: All Western Canadian Customers

Subject: Use of unlabelled tank mixes of commercial class pest control products used for crop production or vegetation management

In 2010, Health Canada's Pest Management Regulatory Agency (PMRA) implemented changes that allow for the application of unlabelled tank mixes of commercial pest control products provided they are registered and applied within their respective registered use pattern.

Accordingly, users of these products are permitted by the PMRA to apply unlabelled tank mixes of registered pest control products subject to the following conditions:

1. Each tank mix partner is registered for use in Canada on the crop of interest, including genetically modified crops.
2. The tank mix only includes an adjuvant when specifically required by one of the tank mix partner labels. If an adjuvant is not required on the label of any tank mix partner, then no adjuvant may be added to the tank mix.
3. The application timings of all tank mix partners are compatible with regards to crop and pest staging.
4. Each tank mix partner is applied in accordance with its registered product label (e.g. Directions for Use, Precautions, Buffer Zones, etc.). In cases where information on the tank mix partner labels differs between them, the most restrictive directions must be followed.
5. The tank mix is not specifically excluded or contraindicated on either tank mix partner label.
6. The use of the tank mix provides additional value to the user (e.g. increased scope of pests controlled, contributes to resistance management or integrated pest management, cost- or time-savings).

General precautionary statement:

In some cases, tank mixing pest control products can result in reduced biological activity (antagonism = reduced efficacy), or increased biological activity (synergism = increased host injury). If a grower uses, or if anyone including any retail, crop advisor, agronomist or provincial extension personnel makes a recommendation to use, unlabelled tank mixes not approved by Bayer CropScience in writing they are assuming all liability, and Bayer CropScience disclaims any liability, for:

1. Any antagonistic or synergistic effects of the unlabelled tank mixes; and
2. The use of the Bayer CropScience product.

What does Bayer CropScience support in relation to this new tank mix policy?

Bayer CropScience will only support the use of Bayer CropScience products with tank mixes presently listed on Bayer CropScience product labels or with the unlabelled tank mixes listed in this document.

Unlabelled tank mixes supported by Bayer CropScience

The use of Bayer CropScience products in the following unlabelled tank mixes is supported by Bayer CropScience:

HERBICIDES			
Herbicide Brand	Tank Mix Product	Crop	Precautionary Statements
Buctril® M	Tilt®	Spring, Durum and Winter Wheat, Barley, Oats	
	Traxos®	Spring and Durum Wheat	
	Sevin® XLR	Spring, Durum and Winter Wheat, Barley, Oats	
Thumper®	Tilt	Spring and Durum Wheat, Barley	
	Decis®	Spring and Durum Wheat, Barley	
	Sevin XLR	Spring and Durum Wheat, Barley	
	2,4-D	Spring and Durum Wheat, Barley	Add 2,4-D Ester at 140 g ai/ha (2 active ounces/acre) for enhanced broadleaf control. When mixing with a graminicide, addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of 2,4-D minimum crop growth stage is 4 leaf.
Pardner®	Sevin XLR	All crops that both products are registered on	
Centurion®	Odyssey®	Field peas, Seedling Alfalfa, Clearfield Canola, Clearfield Lentils	
	Headline®	Chickpeas, Dry beans, Lentils, Field peas	For specific dry bean cultivars consult product labels
	Proline®	Chickpeas, Lentils	
	Quadris®	Chickpeas, Dry beans, Lentils, Field peas	For specific dry bean cultivars consult product labels
	Quilt®	Chickpeas, Dry beans, Field peas, Lentils	

HERBICIDES cont.			
Herbicide Brand	Tank Mix Product	Crop	Precautionary Statements
Centurion cont.	Decis	All crops that both products are registered on	
	Sevin XLR	All crops that both products are registered on	
Liberty®	Centurion	LibertyLink® Canola	With Liberty at 1.35 or 1.62 L/ac. rate apply Centurion at 50 mL/ac.
	Centurion + Decis	LibertyLink Canola	With Liberty at 1.35 or 1.62 L/ac. rate apply Centurion at 50 mL/ac.
	Centurion + Sevin XLR	LibertyLink Canola	With Liberty at 1.35 or 1.62 L/ac. rate apply Centurion at 50 mL/ac.
	Decis	LibertyLink Canola	
	Sevin XLR	LibertyLink Canola	
Infinity®	2,4-D Ester	Spring, Durum and Winter Wheat, Barley	Add 2,4-D Ester at 140-280 g ai/ha (2-4 active ounces/acre). When mixing with a graminicide, addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of 2,4-D minimum crop growth stage is 4 leaf.
	Axial® + Tilt	Spring Wheat, Barley	Temporary crop injury may be observed when AMS is included for enhanced broadleaf weed control.
	Lontrel™	Spring and Durum Wheat, Barley	
	MCPA Ester	Spring, Durum and Winter Wheat, Barley	Add MCPA Ester at 140-280 g ai/ha (2-4 active ounces/acre). When mixing with a graminicide, addition of MCPA Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages.
	Puma Advance + Tilt	Spring Wheat, Barley	Temporary crop injury may be observed when AMS adjuvant is included for enhanced weed control.

HERBICIDES cont.

Herbicide Brand	Tank Mix Product	Crop	Precautionary Statements
Infinity® cont.	Traxos™	Spring and Durum Wheat	
	Traxos + Tilt	Spring and Durum Wheat	
	Tilt	Spring, Durum and Winter Wheat, Barley	
	Decis	Spring and Durum Wheat, Barley	
	Sevin XLR	Spring and Durum Wheat, Barley	
Puma® Advance	Barricade® (Barricade SG + Perimeter)	Spring and Durum Wheat, Barley	
	OcTTain™	Spring and Durum Wheat	Minimum of 4 leaf crop stage as per OcTTain label
	Grow TTF	Spring and Durum Wheat, Barley	
	Pixxaro™	Spring and Durum Wheat, Barley	
	Momentum	Spring and Durum Wheat, Barley	
	Tilt	Spring and Durum Wheat, Barley	
	Sevin XLR	Spring and Durum Wheat, Barley	
Tundra®	2,4-D Ester	Spring and Durum Wheat, Barley	Add 2,4-D Ester at 140-280 g ai/ha (2-4 active ounces/acre). The addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. With addition of 2,4-D minimum crop growth stage is 4 leaf.
	MCPA Ester	Spring and Durum Wheat, Barley	Add MCPA Ester at 140-280 g ai/ha (2-4 active ounces/acre). The addition of MCPA Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages.
	Lontrel	Spring and Durum Wheat, Barley	

HERBICIDES cont.

Herbicide Brand	Tank Mix Product	Crop	Precautionary Statements
Tundra® cont.	Tilt	Spring Wheat, Barley	Temporary crop injury may be observed when AMS adjuvant is included for enhanced weed control.
	Decis	Spring and Durum Wheat, Barley	
	Sevin XLR	Spring and Durum Wheat, Barley	
Varro®	Attain™	Durum Wheat	
	Barricade/ Barricade II	Spring and Durum Wheat	
	Grow TTF	Spring and Durum Wheat	
	Buctril M	Winter Wheat	
	Refine/ Broadside	Spring and Durum Wheat	
	PP-2525	Spring and Durum Wheat	Add MCPA Ester at 280 g ai/ha (4 active ounces/acre) if required
	PP-23235	Spring and Durum Wheat	Add MCPA Ester at 280 g ai/ha (4 active ounces/acre) if required
	PP-31155	Spring and Durum Wheat	Add MCPA Ester at 280 g ai/ha (4 active ounces/acre) if required
	Momentum	Spring Wheat	AMS adjuvant must be added when tank mixing Varro with Momentum herbicide.
	Paradigm™	Spring, Winter and Durum Wheat	
	Pixxaro	Spring, Winter and Durum Wheat	
OcTTain™	Spring and Durum Wheat	Minimum of 4 leaf crop stage as per OcTTain label	

HERBICIDES cont.			
Herbicide Brand	Tank Mix Product	Crop	Precautionary Statements
Varro cont.	Prestige™	Spring and Durum Wheat	In Spring wheat add AMS adjuvant when tank mixing with Prestige herbicide. Use NIS adjuvant in Durum wheat.
	Retain SG	Spring and Durum Wheat	
	Stellar™	Spring Wheat	
	Travallas™	Spring and Durum Wheat	
	Tilt	Spring and Winter Wheat (not Durum)	Temporary crop injury may be observed when AMS adjuvant is included for enhanced weed control. If conditions are conducive for crop injury do not add Tilt or any other fungicide when adding AMS.
Velocity m3	2,4-D Ester	Spring, Durum and Winter Wheat	Add 2,4-D Ester at 140-280 g ai/ha (2-4 active ounces/acre). The addition of 2,4-D Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. In Spring and Winter Wheat include AMS adjuvant when adding 2,4-D Ester. With addition of 2,4-D minimum crop growth stage is 4 leaf.
	MCPA Ester	Spring, Durum and Winter Wheat	Add MCPA Ester at 140-280 g ai/ha (2-4 active ounces/acre). The addition of MCPA Ester may result in reduced grass control under drought conditions, heavy grass populations or advanced grass stages. In Spring and Winter Wheat include AMS adjuvant when adding MCPA Ester.
	Lontrel	Spring and Durum Wheat	
	Tilt	Spring and Winter Wheat (not Durum)	Temporary crop injury may be observed when AMS adjuvant is included for enhanced weed control. If conditions are conducive for crop injury do not add Tilt or any other fungicide when adding AMS.
	Decis	Spring and Durum Wheat	
	Sevin XLR	Spring and Durum Wheat	

FUNGICIDES			
Fungicide Brand	Tank Mix Product	Crop	Precautionary Statement
Delaro™	Decis	Lentils	
	Lorsban	Lentils	
	Matador	Peas, Chickpeas, Lentils	
Folicur® and Folicur EW	Decis	Spring, Durum and Winter Wheat, Barley, Oats	
	Lorsban	Spring, Durum and Winter Wheat	
	Sevin XLR	Spring, Durum and Winter Wheat	
Proline	Decis	Canola	
	Coragen®	Canola	
	Lorsban™	Spring, Durum and Winter Wheat	
	Matador®	Canola	
	Sevin XLR	Canola	
Prosaro®	Lorsban	Spring, Durum and Winter Wheat	
ProPulse®	Serenade	Dry beans	
Stratego®	MCPA Ester	Oats	
	Refine® SG	Oats	Temporary crop injury may be observed
	Simplicity™	Spring Wheat	Temporary crop injury may be observed
	Decis	Spring, Durum and Winter Wheat, Barley, Oats	
	Sevin XLR	Spring, Durum and Winter Wheat, Barley, Oats	

INSECTICIDES			
Insecticide Brand	Tank Mix Product	Crop	Precautionary Statements
Decis	Glyphosate	Roundup Ready Canola	
	Odyssey [®]	Clearfield [®] Canola, Clearfield XCEED <i>B.juncea</i> Canola, Clearfield Lentils	
	Solo [®]	Clearfield Canola, Clearfield XCEED <i>B.juncea</i> Canola, Clearfield Lentils, Clearfield Sunflowers	
	Headline [®]	All crops that both products are registered on	
	Lance [®]	Alfalfa (seed production only), Canola, Lentils, Potatoes	
	Tilt	Spring, Durum and Winter Wheat, Barley, Oats	



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Always read and follow label directions. Buctril[®], Decis[®], Delaro[™], Folicur[®], Infinity[®], Liberty[®], LibertyLink[®], Pardner[®], Proline[®], Propulse[™], Prosaro[®], Puma[®], Serenade[®], Stratego[®], Thumper[®], Tundra[®] and Varro[®] are trademarks of the Bayer Group. Centurion[®] is a registered trademark of Arysta LifeScience. All other products are trademarks of their respective companies. Bayer CropScience is a member of CropLife Canada.