

2019 Unlabelled Supported Tank Mixes For use in Western Canada For Dow AgroSciences Canada Inc. and Production Agriscience Canada Inc. Registered Pesticide Products

What is the PMRA tank mix policy?

The PMRA (Pest Management Regulatory Agency) has established a position related to un-labelled tank mix use of commercial pest control products used in crop production, disease or vegetation management.

Based on the position and guidelines established by the PMRA, application of UNLABELLED tank mixes is permitted provided the commercial pest control products are registered and applied within their registered use pattern (i.e. application rate, application timing to crops, weed stages, rotational guidelines, number of applications per season, pre-harvest intervals, pest claims, etc.). Accordingly, users of these products are permitted 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 most restrictive label and use precautions are followed in compliance with label directions.
3. Where required specifically by one of the tank mix partners, the tank mix includes an adjuvant at the recommended level. If an adjuvant is not required on the label of any tank mix partner, then no adjuvant may be added to the tank mix.
4. The application timings of all tank mix partners are compatible as related to crop and pest staging in addition to recommended loading, mixing and most complete tank-cleanout directions.
5. Each tank mix partner is applied in accordance with its registered product label, considering Use Directions, Precautions, Buffer Zones and Resistance Management recommendations. In cases where information on the tank mix partner label differs, use the most restrictive directions must be followed.
6. The tank mix combination is a management tool for increased pest control, assists integrated pest management practice, allows for rotation of herbicide groups, saves time and is of value to commercial farm operations.

What does Corteva Agriscience™ support under the tank mix policy?

Corteva Agriscience™ will support the unregistered tank mixes listed in the charts below, in addition to all tank mixes that are presently included on product labels or approved by the PMRA (registered tank mixes are not included in this document). Corteva Agriscience™ will only assume the liability for the pest control performance of Corteva Agriscience™ products.

Will Corteva Agriscience™ support tank mixes not listed in the charts?

If a tank mix is not listed, the user or those recommending the un-labelled mix are at their own risk and assume liability. The user or anyone who makes the recommendation assumes all risk related to performance, crop tolerance and rotations and agrees to hold Corteva Agriscience™ harmless in connection with un-labelled tank mixes or those not pre-approved by Corteva Agriscience™. If a grower, retail, crop advisor, agronomist or provincial extension personnel make a recommendation they are assuming the liability.

CAUTION: Products not formally registered as tank mixes may not be chemically or biologically compatible. Issues that could arise include, but are not restricted to, invert emulsions or other formulation incompatibilities in the spray tank, deactivation of one or more of the actives, antagonism of weed control, crop injury, delay in maturity, crop rotation issues or yield reduction. DO NOT use unregistered tank mixes that are not been approved by both of the manufacturers of the products as an unregistered tank mix.

This document **ONLY** contains information about Corteva Agriscience™ recommendations. Consult the manufacturer of the other product(s) to determine if that company supports the unregistered tank-mix, and for guidelines, label use instructions and precautions.

Corteva Agriscience™ Products	TANK MIX PRODUCTS	CROP	CAUTION
ACAPELA™	Assure® II	Canola, Chickpeas, Field pea, Lentil, Fababeans, Flax	Follow most restrictive label direction.
	Barricade® II	Spring Wheat, Winter Wheat, Durum, and Barley	Follow most restrictive label direction.
	PrecisionPac® PP-2525 +/- Perimeter® II	Spring Wheat, Winter Wheat, Durum, and Barley. Oats if not tank mixed with Perimeter II	Follow most restrictive label direction.
	PrecisionPac® PP-3317 +/- Perimeter® II	Spring Wheat, Durum, and Barley. Oats if not tank mixed with Perimeter II	Follow most restrictive label direction.
	PrecisionPac® PP-23235 +/- Perimeter® II	Spring Wheat, Durum and Barley	Follow most restrictive label direction.
	Refine® SG +/- Perimeter® II	Spring Wheat, Durum and Barley. Oats if not tank mixed not Perimeter® II	Follow most restrictive label direction.
ASSURE™ II	Ares™ SN	CLEARFIELD® Canola	Follow most restrictive label direction. Use Merge® surfactant ONLY. DO NOT use SureMix®.
	Eclipse™	Roundup Ready® Canola	Follow most restrictive label direction.
	Glyphosate	Roundup Ready® Canola, Roundup Ready® Soybeans	Follow most restrictive label direction.
	Lontrel™	Canola	Follow most restrictive label direction.
	Lontrel™ + Muster®	Canola	Follow most restrictive label direction.
	Odyssey®/Odyssey® NXT	CLEARFIELD® Lentils, Soybeans, Fababeans, and Field Peas	Follow most restrictive label direction. When tank mixing Odyssey®/Odyssey® NXT do not use surfactant included with Assure® II, use Merge® surfactant.
	Pursuit®	Field Peas	Follow most restrictive label direction.

	Solo®/Solo® ADV	CLEARFIELD® Lentils, and Soybeans	Follow most restrictive label direction. When tank mixing Solo®/Solo® ADV do not use surfactant included with Assure® II, use Merge® surfactant.
	Viper® ADV	Field peas and Soybeans only	Follow most restrictive label direction. With Viper® ADV DO NOT use surfactant included with Assure® II. Higher rate only with a minimum 0.25L/ac of Assure® II should be used.
	Acapela®	Canola, chickpeas, Field pea, Lentil, Fababeans, Flax	Follow most restrictive label direction.
	Coragen®	Canola, flax, lentils, field peas, chickpeas	Follow most restrictive label direction.
CIRPREME™ or CIRPREME™ XC	Axial®	Spring Wheat and Barley	Follow most restrictive label direction. Mix MCPA for increased thistle control and control of all canola biotypes. If adding MCPA, do not exceed 189 ml/acre Ester 600.
	Axial Xtreme®	Spring Wheat and Barley	Follow most restrictive label direction. Mix MCPA for increased thistle control and control of all canola biotypes. If adding MCPA, do not exceed 189 ml/acre Ester 600.
	Simplicity™ OD	Spring Wheat and Durum	Follow most restrictive label direction.
	Simplicity™ GoDRI™	Spring Wheat and Durum	Follow most restrictive label direction. Requires Agral 90®, AgSurf® Original or Sentry® @ 0.25% v/v.
	Everest® 2.0	Spring Wheat and Durum	Requires a surfactant. Follow the most restrictive label.
	MCPA Ester 600	Wheat, Durum and Barley	Adhere to rotational guideline for legume crops.
FRONTLINE™ XL	Assert® and Puma® 120 Super (1/2 rate)	Wheat and Barley	Add the Assert® first followed by the Frontline™ XL, acidulate then Puma® 120 Super.
	Avenge® 200 C	Barley, check label for Wheat varieties	Avoid stress conditions. Some transient crop yellowing may occur within 5-7 days.
	Signal® & NextStep®	Wheat and Durum	Consult manufacturer's label for tank-mix information order. Use the highest recommended rate by the manufacturer.
LIQUID ACHIEVE™	GENERAL		When mixing Liquid Achieve™, use LOW AGITATION. High agitation can cause the formation of a precipitate that may cause plugging. If >400 ppm bicarbonates, add AMS at 1% v/v to the tank first.

	OcTTain™ XL	Wheat, Durum and Barley	When tank mixing with OcTTain XL™, add 0.25% v/v Finish or Flush prior to adding Liquid Achieve, OcTTain™ XL and Intake. If high bicarbonates >400 ppm, add AMS at 1% v/v first, followed by Finish or Flush at 0.25%.
	Copper	Wheat, Durum and Barley	Use only chelated copper. Only for Liquid Achieve™ with no other mixtures.
	Micronutrients	Wheat, Durum and Barley	Use only chelated micro-nutrients. Only for Liquid Achieve™ with no other mixtures.
	Tilt®	Wheat, Durum and Barley	Check broadleaf label for uses direction.
OCTTAIN™ XL	Assert® and Puma® 120 Super® (1/2 rate)	Spring Wheat only	Follow most restrictive label direction.
	Avenge® 200 C	Barley, Wheat - check varieties!	Follow most restrictive label direction.
	Foothills® NG	Spring Wheat and Durum	Follow most restrictive label direction.
	Marengo®	Barley and Wheat	Follow most restrictive label direction.
	Tilt®	Spring Wheat, Durum and Barley	Follow most restrictive label direction.
	Traxos®	Wheat and Durum	Consult manufacturer's guidelines for tank-mix information.
	Varro®	Wheat, Winter Wheat and Durum	Follow most restrictive label direction.
PARADIGM™	Axial® Xtreme	Wheat and Barley	Follow the most restrictive label. Add the Paradigm™ to the tank first. Mix MCPA for increased level of control and control of all canola biotypes. If adding MCPA, do not exceed 189 ml/acre Ester 600.
	Assert®	Wheat, Durum and Barley	Mix Paradigm™ first, followed by Assert® and pH adjuster.
	Traxos®	Wheat and Durum	Follow the most restrictive label. Add the Paradigm™ to the tank first. Mix MCPA for control of all canola biotypes. If adding MCPA, do not exceed 189 ml/acre Ester 600.
	Sierra®	Wheat and Durum	Add Paradigm™ to the tank first, Sierra and non-ionic surfactant. Mix MCPA for control of all canola biotypes.

	Varro®	Wheat, Winter Wheat and Durum	Follow the most restrictive label. Add the Paradigm to the tank first. Mix MCPA for control of all canola biotypes.
PIXXARO™	Assert®	Wheat, Durum and Barley	Add Pixxaro™ A and Plus M first, followed by pH adjuster and Assert.
	Axial®	Wheat and Barley	Follow the most restrictive label. Add the Pixxaro™ components to the tank first.
	Sierra®	Spring Wheat and Durum	Follow the most restrictive label. Add the Sierra® to the tank first.
	Varro®	Wheat, Winter Wheat and Durum	Follow the most restrictive label. Add Varro® to the tank first.
	Traxos®	Wheat and Durum	Add the Pixxaro™ A and Plus M components to the tank first.
PRESTIGE™ XL	Simplicity™ GoDRI™	Wheat and Durum	Add 0.25% v/v Finish or Flush or similar prior to mixing Simplicity™ GoDRI™, Prestige™ XL & Agral 90® or other recommended surfactant. For water >400 ppm bicarbonates, AMS must be added first at 2% v/v in addition Finish or Flush at 0.25% v/v.
PRESTIGE™ XC or PRESTIGE™ XL	Assert® and Puma® 120 Super® (1/2 rate)	Wheat, Durum and Barley	Consult manufacturer label mixing information and use.
	Avenge® 200 C	All Barley, check label for Wheat varieties	Do NOT apply to crops under stress conditions.
	Axial®	Wheat and Barley, (excluding Durum)	Consult manufacturer label mixing information and use.
	Broadband®	Wheat, Barley, (excluding Durum)	Consult manufacturer label mixing information and use.
	Foothills® NG	Wheat and Durum	Consult manufacturer label mixing information and use.
	WildCat®	Wheat, Durum and Barley	Consult manufacturer label mixing information and use.
	Varro®	Wheat and Durum	Consult and follow manufacturer label mixing information.
SIMPLICITY GoDRI™	All broadleaf tank-mixes	Wheat and Durum	Add 0.25% Agral® 90, Sentry® or AgSurf® Original (note <u>NOT</u> AgSurf II)
SIMPLICITY™ (53 acres/jug) or SIMPLICITY GoDRI™ (106 acres/jug)	Buctril® M	Wheat and Durum	Broadleaf weeds claimed based on Buctril® M label.
	2,4-D Ester 700	Wheat and Durum	Do not exceed 240 ml/acre LV Ester 700.
	Barricade® with or without MCPA Ester	Wheat and Durum	Follow most restrictive label direction.
	Retain®	Wheat and Durum	Follow most restrictive label direction.

	Curtail M™	Wheat and Durum	Do not exceed the 600 ml/acre rate of Curtail® M.
	Deploy®	Wheat and Durum	Follow most restrictive label. Do not use BASF Assist Oil Concentrate.
	Momentum®	Wheat and Durum	Follow most restrictive label direction. If adding MCPA, do not exceed 280 ml/acre Ester 600.
	Paradigm™	Wheat, Durum and Winter Wheat	Mix the Paradigm™ first, a non-ionic surfactant is required if no MCPA Ester is in the mixture.
	Pixxaro™	Wheat, Durum and Winter Wheat	Mix the Simplicity™ components first followed by Pixxaro A and Pixxaro B.
	MCPA Ester 600	Wheat and Durum	Do not exceed the label rate of up to 280 ml/acre MCPA Ester 600.
	Thumper®	Wheat and Durum	Broadleaf weeds claimed based on Thumper® label.
	Tilt®	Wheat and Durum	Timing and mix of the fungicide should coincide with optimum weed control timing.
SIMPLICITY™ (40 acres/jug) or SIMPLICITY™ GoDRI (80 acres/jug)	Barricade® with or without MCPA Ester	Wheat and Durum	Follow most restrictive label direction.
	Retain®	Wheat and Durum	Follow most restrictive label direction.
	Deploy®	Wheat and Durum	Use recommended adjuvant.
	Momentum®	Wheat and Durum	If adding MCPA, do not exceed 280 ml/acre Ester 600.
	Pardner®/Koril®	Wheat and Durum	Consult broadleaf partner for broadleaf weed claims.
	Tilt®	Wheat and Durum	Tilt® may be added to the tank-mix as the last component.
SPECTRUM™	Assert® and Puma® 120 Super® (1/2 rate)	Wheat and Barley	Consult mixing direction following the most restrictive label.
	Avenge® 200 C	Barley, Wheat - check varieties!	Some crop yellowing possible recovery within a 2 week period.
STELLAR™ XL	Assert® and Puma® 120 Super® (1/2 rate)	Wheat, Durum and Barley	Up to 4 Leaf wild oat stages.
	Tilt®	Wheat and Durum	Follow most restrictive label direction.
VP480™	Eclipse™ III	As per label direction	Maximum of 1.0 liter/acre equiv.*
	Eclipse™ XC	As per label direction	Maximum of 1.0 liter/acre equiv.*
	Buctril® M	As per label direction	Applied as a fallow use only.
	Express® Toss-N-Go®	As per label direction	Follow most restrictive label.
	Lorsban™ 4E	As per label direction	Check water volumes

	MCPA Amine	As per label direction	Prior to corn and peas. Consult label directions
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* Based on 360 g/L formulation

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Ag-Surf® (IPCO); Ares™, Odyssey®/Odyssey NXT, Pursuit®, Solo®/Solo® ADV, and Viper® ADV (BASF); Puma® 120 Super, Buctril®M, Pardner®, Marengo®, Varro®, and Thumper® (Bayer CropScience) ; Cirpreme™, Cirpreme™ XC, Eclipse™, Eclipse™ III, Eclipse™ XC, Lontrel™ XC, Lorsban™ 4E, Liquid Achieve™, Frontline™ XL, Pixxaro™, Paradigm™, Spectrum™, Tandem™, PrePass™ FLEX, OcTTain™ XL, Stellar™ XL, Simplicity™ OD and Simplicity™ GoDRI™, Prestige™ XC, Prestige™ XL, and VP480™ (Dow AgroSciences); Assure® II, and Acapela® (E. I. du Pont de Nemours and Company); Assert®, Curtail M™, Koril®, and Signal® (NuFarm); Avenge® 200 C, Broadband®, Agral® 90, Sierra®, Axial®, Axial Xtreme®, Traxos® and Tilt® (Syngenta); Barricade® II, Perimeter® II, Refine® SG, Coragen®, Express® Toss-N-Go®, and Banvel® II (FMC); Deploy®, Everest® 2.0, and NextStep® (Arysta LifeScience North America, LLC.) Foothills® NG, WildCat®, Retain®, and Momentum® (Loveland).

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