






# PRE-EMERGENT PRODUCT



Please see labels for complete crop listings, weed listings (including weed size specifications) and rates.

FMC	KEY MESSAGE	CROPS	KEY WEEDS	RESIDUAL CONTROL
<b>AIM® EC</b> Group 14	A flexible tank-mix partner for enhanced burnoff	Barley, buckwheat, canola, chickpea, corn (field & sweet), dry bean, faba bean, field pea, flax, lentil, millet (pearl & proso), mustard, oats, potato, rye, safflower, soybean, sunflower, triticale, wheat (spring, durum & winter)	Black nightshade, eastern black nightshade, lamb's-quarters, morning glory, redroot pigweed, tall waterhemp, velvetleaf, flixweed, hairy nightshade, pennsylvania smartweed, pigweed (prostrate, smooth, tumble), purslane, round-leaved mallow, stinkweed, tansy mustard, waterhemp (tall, common), carpetweed, cleavers, cocklebur, jimsonweed, kochia, Russian thistle, shepherd's-purse, volunteer canola, burclover, corn spurry, prickly lettuce, venice mallow	No
<b>Authority® 480</b> Group 14	Extended control of tough broadleaf weeds	Chickpeas, field peas, flax, sunflower, soybeans, tame mustard, faba beans. New 2021 - spring wheat, durum wheat (low rate only)	Kochia, cleavers <sup>S</sup> , common groundsel, common purslane, common waterhemp, eastern black nightshade, lamb's-quarters, large crabgrass, powell pigweed, redroot pigweed, smooth crabgrass, wild buckwheat, yellow woodsorrel	Yes 
<b>Authority® Supreme</b> Groups 14 & 15	Get 2-in-1 pre-emergent protection against grassy and broadleaf weeds	Field peas, chickpeas, soybeans	Barnyard grass, brome (downy, Japanese), crabgrass (large, smooth), foxtail (green, yellow, giant), witchgrass, wild oats <sup>S</sup> , cleavers, common groundsel, common purslane, common ragweed <sup>S</sup> , cowcockle, eastern black nightshade, kochia, lamb's-quarters, pigweed (green, redroot powell), stinkweed, waterhemp (common), wild buckwheat, wild mustard <sup>S</sup> , yellow woodsorrel	Yes 
<b>Command® 360ME</b> Group 13	Your first line of defense against cleavers in canola	Canola	Cleavers <sup>E</sup>	Yes 
<b>Command® Charge</b> Groups 13 & 14	A stronger, more complete burnoff before canola plus weeks of extended cleaver control.	All herbicide tolerant canola	Command charge A – cleavers <sup>E</sup> Command charge B – lamb's-quarters (common), morning glory, nightshade (black), nightshade (eastern black), redroot pigweed, velvetleaf, tall waterhemp, flixweed, round leaved mallow, morning glory, tansy mustard, hairy nightshade, field pennycress (stinkweed), pigweed (prostrate, smooth, tumble), common purslane, pennsylvania smartweed, tall waterhemp, common waterhemp, volunteer canola, carpetweed, cocklebur, jimsonweed, kochia, shepherd's purse, Russian thistle	Yes - for cleavers 
<b>Express® FX</b> Groups 2, 4 & 9 when mixed with glyphosate	Proactive resistance management with uncompromising burnoff performance	Wheat (spring, durum, winter) Barley, Oats	**Canada fleabane, common ragweed, kochia (including Group 2 & 9 resistance biotypes), narrow-leaved hawk's-beard, scentless chamomile <sup>S</sup> , dandelion, downy brome, flixweed, giant foxtail, green foxtail, hemp-nettle, lady's-thumb, lamb's-quarters, Persian dandelion, redroot pigweed, Russian thistle, stinkweed, volunteers barley, volunteer canola (including glyphosate tolerant), volunteer flax, volunteer wheat, wild mustard, wild oats, cow cockle, wild buckwheat, Canada thistle <sup>S</sup> , white cockle <sup>S</sup>	No

 - Requires moisture for activation    **E** - Extended control    **S** - Suppression only

\*\*When tank mixed with 0.5 L/ac glyphosate equivalent

† Injury to crops and forages may occur on coarse-textured soils, low in organic matter (less than 3%) or in fields with variable soils, gravelly areas, sandy areas or eroded knolls. Avoid planting in soils containing more than 50% sand.


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FMC	KEY MESSAGE	CROPS	KEY WEEDS	RESIDUAL CONTROL
<b>Express® PRO</b> Groups 2 & 9 when mixed with glyphosate	Professional strength burnoff with extended control	Wheat (spring, durum, winter), barley	**Canada fleabane, cleavers <sup>E</sup> , common ragweed, kochia, narrow-leaved hawk's-bearde, scentless chamomile, night flowering catchfly <sup>S</sup> , dandelione, downy brome, flixweed, giant foxtail, green foxtail, hemp-nettle, kochia (except Group 2 & 9 resistant biotypes), lady's-thumb, lamb's-quarters, Persian darnel, redroot pigweed, Russian thistle, stinkweed, volunteers barley, volunteer canolae (including glyphosate tolerant), volunteer flax, volunteer wheat, wild mustard, wild oats, cow cockle, wild buckwheat, Canada thistle <sup>S</sup> , white cockle	Yes
<b>Express® SG</b> Groups 2 & 9 when mixed with glyphosate	Excellent burnoff weed control with maximum cropping flexibility	Wheat (spring, durum, winter), oats, lentils <sup>†</sup> , chickpeas <sup>†</sup> , alfalfa <sup>†</sup> , red clover <sup>†</sup> , alsike clover <sup>†</sup> (seed or forage production), smooth brome <sup>†</sup> , meadow brome <sup>†</sup> , timothy <sup>†</sup> , creeping red fescue <sup>†</sup> , canary seed, dry bean, faba bean, field peas, lupin, soybean	**Canada fleabane, common ragweed, narrow-leaved hawk's-beard, scentless chamomile, dandelion, downy brome, flixweed, giant foxtail, green foxtail, hemp-nettle, kochia (except Group 2 & 9 resistant biotypes), lady's-thumb, lamb's-quarters, Persian darnel, redroot pigweed, Russian thistle, stinkweed, volunteers barley, volunteer canola (including glyphosate tolerant), volunteer flax, volunteer wheat, wild mustard, wild oats, cow cockle, wild buckwheat, Canada thistle <sup>S</sup> , white cockle <sup>S</sup>	No
<b>Focus®</b> Groups 14 & 15	Extended control of toughest grassy and broadleaf weeds with a unique mode of action	Spring wheat, winter wheat, lentils, field corn, soybean	Barnyard grass, cleavers, common waterhemp, downy brome, green foxtail, yellow foxtail, giant foxtail <sup>†</sup> , foxtail barley <sup>S</sup> , green pigweed, Italian ryegrass, Japanese brome, kochia <sup>S</sup> , lamb's-quarters <sup>S</sup> , large crabgrass, redroot pigweed, stinkweed <sup>S</sup> , velvet leaf, wild buckwheat <sup>†</sup> , wild mustard <sup>†</sup> , wild oats <sup>S</sup> , wormseed mustard	Yes 
<b>Intruvix®</b> Groups 2, 4, 14 & 9 when mixed with glyphosate	Intruvix® herbicide plus glyphosate provides farmers the only 4 modes of action cereal burnoff to battle resistant weeds	Wheat (spring, durum, winter), barley, oats	Canada fleabane, Canada thistle <sup>S</sup> , cleavers, common ragweed, cow cockle, dandelion, downy brome, flixweed, giant foxtail, green foxtail, hemp-nettle, kochia (including Group 2&9 resistant biotypes), lady's thumb, lamb's-quarters, morning glory, narrow-leaved hawk's-beard, eastern black nightshade, black nightshade, Persian darnel, redroot pigweed, Russian thistle, scentless chamomile <sup>S</sup> , stinkweed, velvetleaf, volunteer canola (including glyphosate tolerant), volunteer flax, volunteer barley, volunteer wheat, tall waterhemp, white cockle <sup>S</sup> , wild oats, wild buckwheat, wild mustard	No

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<sup>†</sup> Injury to crops and forages may occur on coarse-textured soils, low in organic matter (less than 3%) or in fields with variable soils, gravelly areas, sandy areas or eroded knolls. Avoid planting in soils containing more than 50% sand.

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GOWAN	KEY MESSAGE	CROPS	KEY WEEDS	RESIDUAL CONTROL
<b>Avadex® MicroActiv®</b> Group 8	Avadex is a Group 8 mode of action, a powerful tool to help combat Group 1 and 2 resistant Wild Oats. Avadex also has residual activity helping to control flushing Wild Oats. This granular herbicide can be applied spring or fall and is ideal for zero and minimum tillage fields.	Spring wheat, durum wheat, barley, canary seed, flax, canola, mustard, dry peas, sugar beets.	Wild Oats	6 to 8 weeks
<b>Avadex® Liquid EC</b> Group 8	Avadex is a Group 8 mode of action, a powerful tool to help combat Group 1 and 2 resistant Wild Oats. Avadex also has residual activity helping to control flushing Wild Oats This liquid herbicide is suited for conventional tillage fields, as contact with black soil at time of application will directly impact how effective weed control is.	Spring wheat, durum wheat, barley, flax, canola, mustard, dry peas, sugar beets.	Wild Oats	6 to 8 weeks
<b>Fortress® MicroActiv®</b> Groups 3 & 8	Fortress brings 2 modes of action, Group 3 and Group 8, to help the battle against resistant Wild Oats. As well as control of flushing Wild Oats, Fortress has activity on other grasses and broadleaf weeds. This granular herbicide can be used spring or fall and can be applied in any tillage system including zero and minimum tillage systems.	Canola, Flax, Spring Wheat, Durum Wheat, Barly, Mustard	Control of wild oats, green and yellow foxtail. Suppression of kochia, wild buckwheat, lamb's quarters, redroot pigweed, and Russian thistle	6 to 8 weeks
<b>Edge® MicroActiv®</b> Group 3	This New formulaton of Edge is a powerful Group 3 mode of action to help combat Group 2, 4, and 9 resistant weeds that are becoming more prevalent across the prairies, as well as offering residual control. Edge MicroActiv can be applied spring or fall in any tillage system to help keep pulse and canola fields clean.	Canola, lentils, peas, dry beans, faba beans, yellow mustard, hemp, chickpeas, soybeans, sunflowers, alfalfa (establishment)	Green and yellow foxtail, barnyard grass, wild oats <sup>5</sup> , kochia, wild buckwheat, redroot pigweed, lamb's-quarters, cleavers <sup>5</sup> and more	6 to 8 weeks
<b>Treflan® Liquid EC</b> Group 3	Treflan Liquid EC is a lower cost Group 3 that is strong on some weeds, but does not have the broad spectrum Control of Edge. This liquid herbicide is suited for conventional tillage fields, as of contact with soil at application timing will directly impact how effective weed control is.	Canola, dry beans, faba beans, field peas, flax, lentils, mustard, sunflowers, alfalfa (establishment)	Green foxtail, yellow foxtail, barnyard grass, wild oats <sup>5</sup> , wild buckwheat, chickweed, lamb's-quarters, pigweed, and more	6 to 8 weeks

Light incorporation moves products into soil moisture, no additional precipitation required for activation.



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NUFARM	KEY MESSAGE	CROPS	KEY WEEDS	RESIDUAL CONTROL
<b>Valtera™ EZ</b> Group 14	Valtera™ EZ is a pre-emergent soil active herbicide for early season broadleaf weed control in pulses, wheat and soybeans. Now available in a convenient liquid formulation	Chickpeas, field peas, lentils, soybeans, wheat	Annual sow-thistle, chickweed, dandelion (seedling), green foxtail <sup>s</sup> , kochia (including Group 2-, 4-, and glyphosate-resistant biotypes), lamb's quarters (Group 2-, 5- and glyphosate resistant biotypes), pigweeds, Russian thistle <sup>s</sup> , volunteer canola <sup>s</sup> , and wild buckwheat <sup>s</sup>	Up to 8 weeks 
<b>Fierce® EZ</b> Groups 14 & 15	Fierce® EZ pre-emergent herbicide delivers broad-spectrum, extended soil active weed control on emerging spring broadleaf and grass weeds for up to 8 weeks after activation in pulses, wheat and soybeans.	Chickpeas, field peas, lentils (fall application only), soybeans, spring wheat	Chickweed, green foxtail (including Group 1- and 2-resistant biotypes), kochia (Group 2-, 4-, and glyphosate-resistant biotypes), lamb's quarters, redroot pigweed, volunteer canola <sup>s</sup> , wild buckwheat, wild mustard, and many more.	Up to 8 weeks 
<b>Conquer® II</b> Groups 14 & 6	CONQUER® II pre-seed herbicide adds more power to your glyphosate for burndown ahead of seeding canola.	Canola, barley, canary seed, corn, fall rye, triticale, oats, summerfallow, wheat (spring, durum, winter)	Weeds controlled when tank-mixed with glyphosate - Annual sow thistle <sup>s</sup> , chickweed, cleavers (including Group 2- and glyphosate-resistant biotypes), cow cockle <sup>s</sup> , dandelion (spring germinated), flixweed, kochia (including Group 2-, 4-, and glyphosate-resistant biotypes), lamb's-quarters (including Group 2-, 5- and glyphosate-resistant biotypes), narrow-leaved hawk's beard <sup>s</sup> , night-flowering catchfly, pineapple weed <sup>s</sup> , redroot pigweed (including Group 2- and 5-resistant biotypes), shepherd's purse, stinkweed, volunteer canola (all herbicide-tolerant biotypes), wild buckwheat, and wild mustard	No
<b>GoldWing®</b> Groups 14 & 4	GoldWing® herbicide is an effective pre-seed burndown option with multiple modes of action for use before seeding pulses, cereals, flax corn and canary seed.	Barley, canary seed, chickpeas, corn, fababeans, field peas, flax, lentils, oats, rye, triticale, wheat (spring, durum, winter)	Weeds controlled when tank-mixed with glyphosate - Annual sow-thistle <sup>s</sup> , Canada thistle, cleavers (including Group 2- and glyphosate-resistant biotypes), cow cockle, dandelion (suppression), kochia (including Group 2-, 4- and glyphosate-resistant biotypes), lamb's quarters (including Group 2- and 5-resistant biotypes), mustards (except dog and tansy), narrow-leaved hawk's-beard (spring germinated), night-flowering catchfly, redroot pigweed (including Group 2- and 5-resistant biotypes), round-leaved mallow, stinkweed, shepherd's purse, smartweed, volunteer canola (all herbicide tolerant biotypes), and wild buckwheat	No
<b>BlackHawk®</b> Groups 14 & 4	BlackHawk® pre-seed herbicide enters the heat of the battle with fast, flexible and complete broadleaf weed control ahead of cereals, soybeans and corn.	Barley, canary seed, field corn, oats, rye (spring, fall), soybeans, summerfallow, triticale, wheat (spring, winter, durum)	Weeds controlled when tank-mixed with glyphosate - Canada thistle, cleavers (including Group 2- and glyphosate-resistant biotypes), cocklebur, cow cockle <sup>s</sup> , dandelion (spring seedling and season long suppression), flixweed, kochia (including Group 2-, 4-, and glyphosate-resistant biotypes), lamb's-quarters (including Group 2- and 5-resistant biotypes), mustards (except dog and tansy), narrow-leaved hawk's-beard (including Group 2-resistant biotypes), night-flowering catchfly, pigweeds (redroot and Russian), prickly lettuce, Russian thistle, shepherd's-purse, sow-thistle, stinkweed, sweet clover, volunteer canola (including all herbicide-tolerant biotypes), wild buckwheat (suppression), and wild radish	No

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BASF	KEY MESSAGE	CROPS	KEY WEEDS	RESIDUAL CONTROL
<b>Heat Complete</b> Groups 14 & 4	The ultimate pre-seed burndown with extended residual activity on key grassy and broadleaf weeds. Contains Group 14 and Group 15 active ingredients in a convenient co-pack for control or suppression of Group 1-, 2- and 9-resistant weeds.	Corn, field peas, lentils, soybeans	Canada fleabane (includes Group 2-resistant and glyphosate-resistant biotypes), cleavers <sup>S</sup> , common waterhemp <sup>S</sup> , dandelion, flixweed, kochia <sup>S</sup> (includes Group 2-resistant and glyphosate-resistant biotypes), lady's thumb, lamb's quarters <sup>S</sup> , narrow-leaved hawk's beard, perennial sow-thistle, prickly lettuce, ragweed (common, giant), redroot pigweed <sup>S</sup> , round-leaved mallow, shepherd's-purse, stinkweed <sup>S</sup> , Volunteer canola <sup>S</sup> (all herbicide-tolerant canola systems, including glyphosate-tolerant canola), wild buckwheat <sup>S</sup> , wild mustard <sup>S</sup>	Yes
<b>Heat LQ</b> Group 14	Heat LQ herbicide for pre-seed, pre-emergence and chemfallow applications provides the ultimate burndown in an easy-to-use liquid formulation. Heat LQ for pre-harvest applications delivers fast, complete crop and broadleaf weed dry down.	Barley, canary seed, chickpeas (kabuli), corn (field, sweet), field peas, lentils, tame oats, soybeans, wheat (spring, winter, durum)	Canada fleabane (includes Group 2-resistant and glyphosate-resistant biotypes), cleaver <sup>S</sup> , dandelion, flixweed, kochia (Group 2-resistant and glyphosate-resistant biotypes), lamb's quarter <sup>S</sup> , narrow-leaved hawk's beard, redroot pigweed, round-leaved mallow, stinkweed, volunteer canola (all herbicide-tolerant canola systems including glyphosate-tolerant canola), wild buckwheat, wild mustard	No

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