

Engenia herbicide

technology sheet

An advanced dicamba formulation with lower-volatility properties.

- New, more highly concentrated liquid formulation for easier handling and a lower use rate
- Effective resistance management tool for Group 2-, triazine-, and glyphosate-resistant biotypes

Active ingredient

Dicamba – Group 4

Formulation

Solution

One case contains

2 x 8.09 L jugs

Also available in 121.2 L shuttle

Storage

Keep dry.

Crops

Roundup Ready 2 Xtend™ soybeans¹

Field corn

Pasture grasses

Seedling grasses

Staging

pre-plant, pre-emergence, post-emergence (up to early flower)

up to 50 cm tall²

established, actively growing

2 to 4 leaf

Other applications

Pasture and rangeland grasses and non-crop areas: creeping red fescue, crested wheatgrass, intermediate wheatgrass, meadow fescue, meadow foxtail, orchard grass, pubescent wheatgrass, slender wheatgrass, smooth brome grass, streambank wheatgrass, tall fescue, tall wheatgrass, and timothy.

In chemfallow and post-harvest.³

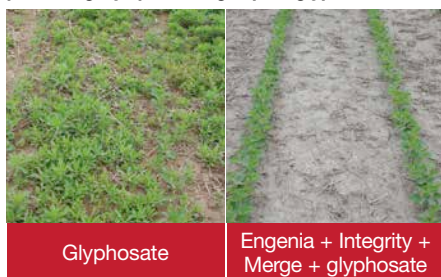
Apply to actively growing weeds.

Weed control in Roundup Ready 2 Xtend soybeans with glyphosate alone versus Engenia™ plus glyphosate



Source: University of Guelph research trial, Ridgetown, ON, 2015

Weed control in Roundup Ready 2 Xtend soybeans with glyphosate alone versus Engenia plus Integrity® plus Merge® plus glyphosate



Source: University of Guelph research trial, Ridgetown, ON, 2015

Weeds controlled³

Post-emergence in field corn and Roundup Ready 2 Xtend soybeans.⁴

Buckwheat (tartary, wild)	Field bindweed ⁶	Ragweed (common ⁷ , false, giant)
Canada fleabane ⁵	Green smartweed	Redroot pigweed ⁷
Canada thistle ⁶	Lady's thumb	Russian pigweed
Cleavers	Lamb's quarters ⁷	Velvetleaf
Corn spurry	Mustards	
Cow cockle	Perennial sow thistle ⁶	

Pasture, rangeland and non-crop areas.

Canada thistle	Ground cherry ⁹	Sheep sorrel ⁹
Curled dock ⁸	Knapweed (diffuse) ⁹	Thyme-leaved spurge ⁹
English daisy	Pasture sage ⁹	
Field bindweed	Perennial sow thistle	
Goat's beard ⁹	Poverty weed ⁹	
Goldenrod	Ragwort (tansy)	

¹ Apply by ground ONLY to Roundup Ready 2 Xtend soybeans. Soybean varieties that are not designated as dicamba-tolerant will be damaged or destroyed by this treatment.

² Broadcast spray up to 20 cm, larger corn plants require drop nozzles.

³ For a complete list of proper weed staging, please refer to the product label.

⁴ Controlled by Engenia alone at 200 ml/ac to 400 ml/ac (0.5 to 1 L/ha).

⁵ Post-emergence only.

⁶ Apply Engenia herbicide annually for three years at the flowering stage of bindweed and the budding stage of thistles.

⁷ Includes atrazine-resistant species in corn.

⁸ Top growth only.

⁹ Controlled with higher rate of Engenia. See label for details.

Application rates

One case will treat 40 to 80 acres of Roundup Ready 2 Xtend soybeans, depending on rate used.

In-crop application^{10,11}

Field corn, Roundup Ready 2 Xtend soybeans^{12,13,14,15} 200 ml/ac to 400 ml/ac (500 ml/ha to 1000 ml/ha)

Pasture, rangeland and non-crop areas^{10,11}

For brush weed control¹⁶ 680 ml/ac to 1180 ml/ac (1680 ml/ha to 2920 ml/ha)

For broadleaf weed control 680 ml/ac to 1490 ml/ac (1680 ml/ha to 3680 ml/ha)

Chemfallow, post-harvest 400 ml/ac to 800 ml/ac (1000 ml/ha to 2000 ml/ha)

¹⁰ See label for a complete list of additional available tank mixes and their rates. Tank-mix options are not included in the case. ¹¹ See label for water rate application. ¹² Engenia can be used alone or in tank mix with glyphosate for additional broadleaf and grass weed control. See label for important details. ¹³ For application to Roundup Ready 2 Xtend soybeans, apply Engenia using nozzles that deliver extremely coarse to ultra-coarse spray droplets. ¹⁴ The 400 ml/ac rate of Engenia is to be used only once a season and should be used pre-plant, pre-emergence or in-crop early post-emergence. ¹⁵ 793 ml/ac of Engenia is the maximum total to be applied in a single growing season. ¹⁶ Must be applied in tank mix, see label for tank-mix partners.

Mixing order

1. Use a 50 mesh filter screen.
2. Fill clean tank with 1/2 of the required amount of clean water and agitate during the entire mixing procedure.
3. Add the required amount of Engenia herbicide.
4. If tank mixing, add the appropriate liquid tank-mix partner then add the rest of the water to the spray tank.
5. Maintain sufficient agitation during mixing and spraying to ensure a uniform spray mixture.

Application tips

Rainfastness – 4 hours. Do not apply Engenia if the crop is under seeded to legumes.

Water volume – Use higher water volumes to ensure adequate coverage.¹¹

Pre-harvest interval

For application to Roundup Ready 2 Xtend soybeans: 7 to 10 days for soybean forage and 13 to 15 days for soybean hay.

Grazing

See label for grazing restrictions.

Follow crops

For Roundup Ready 2 Xtend soybeans, a plant-back interval of 120 days is required for all crops not on the Engenia label.

For chemfallow and post-harvest, see label for follow crops.

Tank mixes

Herbicides for corn: Frontier® Max, Aatrex® Liquid 480, Dual® II Magnum®, Primextra® II Magnum, Prowl® H2O, Ultim® 75% DF, Elim® EP Herbicide 25% DF

Herbicide for Roundup Ready 2 Xtend soybeans: Glyphosate¹⁷

Contact **AgSolutions®** Customer Care or your local BASF Sales Representative for additional information on supported tank mixes.

¹⁷ Only use glyphosate products registered for use in soybeans. Do not tank-mix Engenia with glyphosate products where glyphosate is present as an ammonium salt.

For more information: Call **AgSolutions** Customer Care at 1-877-371-BASF (2273), or visit **agsolutions.ca**.

Always read and follow label directions.

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready 2 Xtend™ soybeans contain genes that confer tolerance to glyphosate and dicamba. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate, and those containing dicamba will kill crops that are not tolerant to dicamba. Contact your Monsanto dealer or call the Monsanto technical support line at 1-800-667-4944 for recommended Roundup Ready® Xtend Crop System weed control programs. Roundup Ready 2 Xtend™ and Roundup Ready® are trademarks of Monsanto Technology LLC, Monsanto Canada, Inc. licensee. © 2016 Monsanto Canada Inc.