

Engenia herbicide

technology sheet

An advanced dicamba formulation with lower volatility properties.

- 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.

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



On glyphosate-resistant Canada fleabane
Source: University of Guelph research trial, Ridgetown, ON, 2015

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



On glyphosate-resistant Canada fleabane
Source: University of Guelph research trial, Ridgetown, ON, 2015

Crops

Roundup Ready 2 Xtend® and XtendFlex® soybeans¹
Field corn
Pasture grasses
Seedling grasses

Staging

pre-plant, pre-emergence, early post-emergence 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.

Weeds controlled³

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

Buckwheat (tartary, wild)	Field bindweed ⁶	Perennial sow thistle ⁶
Canada fleabane ⁵	Green smartweed	Ragweed (common ¹¹ , false, giant)
Canada thistle ⁶	Hairy nightshade ^{7,9}	Redroot pigweed ¹¹
Cleavers	Kochia ¹⁰	Russian pigweed
Common chickweed ^{7,8}	Lady's thumb	Velvetleaf
Corn spurry	Lamb's quarters ¹¹	Volunteer canola ^{7,12}
Cow cockle	Mustards	
Eastern black nightshade ⁸	Narrow-leaved hawk's beard ^{7,8}	

Pasture, rangeland and non-crop areas.

Canada thistle	Goldenrod	Poverty weed ¹⁴
Curled dock ¹³	Ground cherry ¹⁴	Ragwort (tansy)
English daisy	Knapweed (diffuse) ¹⁴	Sheep sorrel ¹⁴
Field bindweed	Pasture sage ¹⁴	Thyme-leaved spurge ¹⁴
Goat's beard ¹⁴	Perennial sow thistle	

¹ Apply by ground ONLY to Roundup Ready 2 Xtend® and XtendFlex® soybeans. Soybean varieties that are not designated as dicamba-tolerant will be damaged or destroyed by this treatment. ² Corn height refers to the crop as it stands, not leaf-extended. Broadcast spray up to 20 cm, larger corn plants require drop nozzles. When using drop pipes (drop nozzles), direct the spray beneath the lower leaves of the corn and onto the weeds and soil. Do not apply to corn over 50 cm in height. 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 Suppression only. ⁸ Including Group 2-resistant biotypes. ⁹ When Engenia is applied at 283 to 400 ml/ac (0.7 to 1 L/ha). ¹⁰ Including Group 2- and 9-resistant biotypes. ¹¹ Including atrazine-resistant species in corn. ¹² Including conventional, Roundup Ready® and LibertyLink® cultivars, when Engenia is applied at 400 ml/ac (1 L/ha). ¹³ Top growth only. ¹⁴ Controlled with higher rate of Engenia. See label for details.

BASF
We create chemistry

Application rates

One case will treat 10 to 80 acres depending on rate used. One shuttle will treat 80 to 606 acres depending on rate used.

Pre-plant¹⁵, pre-emergence and early post-emergence^{16,17}

Field corn, Roundup Ready 2 Xtend® and XtendFlex® soybeans^{18,19,20,21} 200 ml/ac to 400 ml/ac (480 ml/ha to 1000 ml/ha)

Pasture, rangeland and non-crop areas^{16,17}

For brush weed control²² 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)

¹⁵ Engenia should not be applied to corn pre-plant. ¹⁶ See label for a complete list of additional available tank mixes and their rates. Tank-mix options are not included in the case. ¹⁷ See label for water rate application. ¹⁸ Engenia can be used alone or in tank mix with glyphosate for additional broadleaf and grassy weed control. See label for important details. ¹⁹ For application to Roundup Ready 2 Xtend® and XtendFlex® soybeans, apply Engenia using nozzles that deliver extremely coarse to ultra-coarse spray droplets. ²⁰ 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. ²¹ 793 ml/ac of Engenia is the maximum total to be applied in a single growing season. ²² 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.

Water volume – Use higher water volumes to ensure adequate coverage.¹⁷

Do not apply Engenia if the crop is under seeded to legumes.

Pre-harvest interval

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

See label for other crops.

Follow crops

For Roundup Ready 2 Xtend® and XtendFlex® 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: Aatrex® Liquid 480, Dual® II Magnum®, Elim® EP Herbicide 25% DF, Frontier® Max, Primextra® II Magnum, Prowl® H2O, Ultim® 75% DF, 2,4-D amine

Herbicide for Roundup Ready 2 Xtend® and XtendFlex® soybeans: Glyphosate²³

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

²³ 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. It is a violation of federal law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED AND APPROVED FOR SUCH USES. Contact the Pest Management Regulatory Agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology.

Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your Bayer retailer, refer to the Bayer Technology Use Guide, or call the technical support line at 1-888-283-6847 for recommended Roundup Ready® Xtend Crop System weed control programs.

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