RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators.

This label supersedes any previously issued labeling, including previously issued supplemental labeling. This EPA registration expires December 20, 2020. **DO NOT** use or distribute this product after December 20, 2020.



Dicamba Group 4 Herbicide

Herbicide

For weed control in Dicamba-tolerant (DT) cotton[†]; Dicamba-tolerant (DT) soybean[†]; asparagus; conservation reserve programs (CRP); corn; cotton; fallow cropland; farmstead turf (noncropland) and sod farms; grass grown for seed; pasture, hay, rangeland, and farmstead (noncropland); proso millet; small grain; sorghum; soybean; and sugarcane

†Only for use in states listed as US EPA approved in the **Dicamba-tolerant (DT) Crops** section of this label.

Active Ingredient*:

dicamba: N,N-Bis-(3-aminopropyl)methylamine salt of 3,6-dichloro-o-anisic acid	60.8%
Other Ingredients:	
Total:	100.0%

^{*}Contains 48.38% dicamba (5 pounds acid equivalent per gallon or 600 grams per liter)

EPA Reg. No. 7969-345

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside for complete First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Product of U.S.A.

81098036 NVA 2018-05-385-0612

BASF Corporation 26 Davis Drive Research Triangle Park NC 27709



	FIRST AID
If swallowed	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person.

artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

. Move person to fresh air.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

. If person is not breathing, call 911 or an ambulance; then give

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed or inhaled. Avoid breathing vapor or spray mist. Remove and wash contaminated clothing before reuse. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals

Personal Protective Equipment (PPE)

All mixers, loaders, applicators, and other handlers must wear:

- . Long-sleeved shirt and long pants
- · Shoes plus socks

If inhaled

- · Waterproof gloves
- A NIOSH-approved dust/mist filtering respirator with any R, P, or HE filter. Examples
 include a filtering facepiece respirator with approval number prefix TC-84A and an R
 or P designation, or a full-face or half-mask respirator with R. P. or HE cartridoes.

See **Engineering Controls** for additional requirements. Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

DO NOT apply directly to water, or to areas where surface water is present, or to intertial areas below the mean high water mark. DO NOT contaminate water when disposing
of equipment washwater or rinsate. Apoly this product only as directed on the label.

This chemical is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Ground and Surface Water Protection

Point-source Contamination

To prevent point-source contamination, **DO NOT** mix or load this pesticide product within 50 feet of wells (including abandoned wells and drainage wells), sinkholes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. **DO NOT** apply pesticide product within 50 feet of wells. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas as described below.

Mixing, loading, rinsing, or washing operations performed within 50 feet of a well are allowed only when conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be on or move across the pad. The pad must be self-contained to prevent surface water flow over or from the pad. The pad capacity must be maintained at 110% that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills, equipment or container leaks, equipment washwater, and rainwater that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding well-head setbacks and operational containment.

Care must be taken when using this product to prevent:

- . Back-siphoning into wells
- Spills
- Improper disposal of excess pesticide, spray mixtures, or rinsate

Check valves or antisiphoning devices must be used on all mixing equipment.

Movement by Surface Runoff or Through Soil

DO NOT apply under conditions which favor runoff. **DO NOT** apply to impervious substrates such as paved or highly compacted surfaces in areas with high potential for groundwater contamination. Groundwater contamination may occur in areas where soils are permeable or coarse and groundwater is near the surface. **DO NOT** apply to soils classified as sand with less than 3% organic matter and where groundwater depth is shallow. To minimize the possibility of groundwater contamination, carefully follow the specified rates as affected by soil type in the **Crop-specific Information** section of this label.

Movement by Water Erosion of Treated Soil

DO NOT apply this product through any type of irrigation system including sprinkler, drip, flood, or furrow irrigation. Ensure treated areas have received at least 1/2-inch rainfall (or irrigation) before using tailwater for subsequent irrigation of other fields.

Endangered Species

It is a Federal offense to use any pesticide in a manner that results in the death of an endangered species.

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law. Use of this product may pose a hazard to endangered or threatened species. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. To obtain Bulletins, no more than six months before using this product, consult http://wwww.epa.gov/espp/ or call 1-844-447-3813. You must use the Bulletin valid for the month in which you will apply the product. Please Note: Additional endangered or threatened species obligations are listed under Endangered Species on this label. See Crop-specific Information — Dicamba-tolerant (DT) Crops section for more details regarding protection of endangered species.

Directions For Use

RESTRICTED USE PESTICIDE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the user's possession during application.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Observe all precautions, restrictions, and limitations in this label and the labels of products used in combination with this product. Keep containers closed to avoid spills and containination

All applicable directions, restrictions, precautions, and **Conditions of Sale and Warranty** are to be followed.

RESTRICTED USE PESTICIDE RECORD KEEPING REQUIREMENTS

Applicators must keep the following records for a period of two years; records must be generated within 72 hours after application and a record must be kept for every individual application. Records must be made available to State Pesticide Control Official(s), USDA, and EPA upon request. The following information must be recorded and kept as required by the Federal Pesticide Record Keeping Program, 7 CFR Part 110:

- 1. Full name of the certified applicator
- 2. Certification number of the certified applicator
- 3 Product name
- 4. EPA registration number
- 5. Total amount applied
- 6. Application month, day, and year
- 7. Crop planting date
- Start and Finish Times: the time the applicator begins and the time the applicator completes applications of this product.
- 9. Location of the application
- 10. Crop or site receiving the application
- 11. Size of area treated
- 12. **Training Requirement:** proof that the applicator completed training described in this section
- Application Timing: whether the applicator applied this product preemergence or, the number of days after planting if the applicator applied this product postemerence.
- 14. Receipts of purchase: receipts for the purchase of this product.
- Product Label: a copy of this product label(s), and any state special local needs label that supplements this label.
- 16. Sensitive Areas, Sensitive Crops, and Residential Awareness: Document/ record that the applicator checked an applicable sensitive crop/ specialty crop registry; and document that the applicator surveyed all neighboring fields for any sensitive areas, sensitive crops, or residential areas surrounding the field prior to application. The applicator must be aware that WIND DIRECTION may vary during the application. If wind direction shifts such that the wind is blowing toward neighboring sensitive crops or residential areas, STOP the application. At a minimum, records must include the date the applicator consulted the sensitive crop registry/specialty crop registry and the date the applicator surveyed neighboring fields, and the name of the sensitive crop registry/specialty crop registry the applicator consulted.
- Buffer Requirement: Record of the buffer distance calculation and any areas included within the buffer distance calculations.

RESTRICTED USE PESTICIDE RECORD KEEPING REQUIREMENTS (continued)

- 18. Spray System Cleanout: Document that the applicator complied with the section of this label titled: "Spray System Equipment Clean-out". At a minimum, records must include the date the applicator performed the required cleanout, and cleanout method that the applicator followed.
- Tank Mix Products: a list of all products (pesticides, adjuvants, and other products) that the applicator tank mixed with this product for each application. Include EPA registration numbers in the case of any pesticides.
- 20. Nozzle Selection: which spray nozzle the applicator used to apply this product, and the nozzle pressure the applicator set the sprayer to.
- 21. Air Temperature: the air temperature at boom height at the time the applicator starts and finishes applications of this product.
- 22. Wind Speed and Direction: the wind speed at boom height at the time the applicator starts and finishes applications of this product, and the wind direction at the time the applicator starts and finishes applications of this product.

Training Requirements

Prior to applying this product in the 2019 growing season, all applicators must complete dicamba or auxin-specific training on an annual basis. If training is available and required by the state where the applicator intends to apply this product, the applicator must complete that training before applying this product in-crop. If your state does not require auxin or dicamba-specific training, then the applicator must complete dicamba or auxin-specific training provided by one of the following sources: a) a registrant of a dicamba product approved for in-croo use with dicamba-tolerant croos. or b) a state or state-authorized provider.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about **Personal Protective Equipment (PPE)** and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the WPS.

D0 N0T enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **24 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as, Dlants, soil, or water is:

- · Coveralls worn over short-sleeved shirt and short pants
- · Chemical-resistant footwear plus socks
- · Waterproof gloves
- Chemical-resistant headgear for overhead exposure
- · Protective evewear

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage

Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Avoid cross-contamination with other pesticides. **Engenia® herbicide** freezes around 15° F and is stable under conditions of freezing and thawing. Product that has been frozen should be thawed and recirculated prior to use.

STORAGE AND DISPOSAL (continued)

Pesticide Disposal

Wastes resulting from this product may be disposed of on-site or at an approved waste disposal facility. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures under **Subtitle C** of the **Resource Conservation and Recovery Act**. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity > 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disnosal. Reneat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drin.

Refillable Container. Refill this container with pesticide only. DO NOT reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking, if the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container is compliance with state and local regulations.

In Case of Emergency

In case of large-scale spill of this product, call:

CHEMTREC
 BASF Corporation
 1-800-424-9300
 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

Steps to take if material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- · Remove contaminated clothing and wash affected skin areas with soap and water.
- · Wash clothing before reuse.
- . Keep the spill out of all sewers and open bodies of water.

Product Information

Engenia® herbicide is a water-soluble herbicide that provides postemergence and moderate rate-dependent residual control of many annual broadleaf weeds. Engenia is also active on many biennial and perennial broadleaf weeds as well as woody brush and vines (refer to Table 1 for weeds controlled or suppressed).

Engenia may be applied preplant, at-planting, preemergence, and postemergence (in-crop) for weed control in dicamba-tolerant cotton and dicamba-tolerant soybeans. The use in dicamba-tolerant crops is only allowed in the following states:

Alabama, Arizona, Arkansas, Colorado, Delaware, Florida (excluding Palm Beach County), Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, South Carolina, South Dakota, Tennessee (excluding Wilson County), Texas, Virginia, West Virginia, Wisconsin.

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.

Engenia can be used in specific field and row crops, fallow and postharvest croplands, and sod farms. Engenia does not control grass weeds and must be used sequentially or tank mixed with a grass herbicide for a complete weed control program. See Tank Mixing Information section for important information on herbicide tank mixes or Crop-specific Information section(s) for recommendations on sequential programs.

Table 1. Weeds Controlled or Suppressed

Engenia will control or suppress the following weeds when used at rates described in **Table 2**.

Common Name	Scientific Name
Annuals	
Alkanet	Lithospermum arvense
Amaranth, Palmer	Amaranthus palmeri
Amaranth, Powell	Amaranthus powellii
Amaranth, spiny	Amaranthus spinosus
Aster, slender	Aster subulatus
Bedstraw, catchweed	Galium aparine
Beggarweed, Florida	Desmodium tortuosum

(continued)

Table 1. Weeds Controlled or Suppressed (continued)

Common Name	Scientific Name
Annuals (continued)	
Broomweed, common	Gutierrezia dracunculoides
Buckwheat, tartary	Fagopyrum tataricum
Buckwheat, wild	Polygonum convolvulus
Buffalobur	Solanum rostratum
Burclover, California	Medicago polymorpha
Burcucumber	Sicyos angulatus
Buttercup, corn	Ranunculus arvensis
Buttercup, creeping	Ranunculus repens
Buttercup, roughseed	Ranunculus muricatus
Buttercup, western field	Ranunculus occidentalis
Carpetweed	Mollugo verticillata
Catchfly, nightflowering	Silene noctiflorum
Chamomile, corn	Anthemis arvensis
Chervil, bur	Anthriscus caucalis
Chickweed, common	Stellaria media
Clover	Trifolium spp.
Cockle, corn	Agrostemma githago
Cockle, cow	Vaccaria pyramidata
Cocklebur, common	Xanthium strumarium
Copperleaf, hophornbeam	Acalypha ostryifolia
Cornflower	Centaurea cyanus
Croton, tropic	Croton glandulosus
Croton, woolly	Croton capitatus
Daisy, English	Bellis perennis
Dragonhead, American	Dracocephalum parviflorum
Eveningprimrose, cutleaf	Oenothera laciniata
Falseflax, smallseed	Camelina microcarpa
Fleabane, hairy	Conyza bonariensis
Flixweed	Descurainia sophia
Fumitory	Fumaria officinalis
Goosefoot, nettleleaf	Chenopodium murale
Hempnettle	Galeopsis tetrahit
Henbit	Lamium amplexicaule
Horseweed (Marestail)	Conyza canadensis
Jacob's-ladder	Polemonium caeruleum
Jimsonweed	Datura stramonium
Knawel (German moss)	Scleranthus annuus

Table 1. Weeds Controlled or Suppressed (continued)

Common Name	Scientific Name	
Annuals (continued)		
Knotweed, prostrate	Polygonum aviculare	
Kochia ³	Kochia scoparia	
Ladysthumb	Polygonum persicaria	
Lambsquarters, common	Chenopodium album	
Lettuce, miner's	Claytonia perfoliata	
Lettuce, prickly	Lactuca serriola	
Mallow, common	Malva neglecta	
Mallow, Venice	Hibiscus trionum	
Mayweed	Anthemis cotula	
Morningglory, ivyleaf	Ipomoea hederacea	
Morningglory, tall	Ipomoea purpurea	
Mustard, black	Brassica nigra	
Mustard, blue	Chorispora tenella	
Mustard, tansy	Descurainia pinnata	
Mustard, treacle	Erysimum repandum	
Mustard, tumble	Sisymbrium altissimum	
Mustard, wild	Sinapis arvensis	
Mustard, yellowtop	Sinapis spp.	
Nightshade, black	Solanum nigrum	
Nightshade, cutleaf	Solanum triflorum	
Pennycress, field	Thlaspi arvense	
Pepperweed, Virginia	Lepidium virginicum	
Pigweed, prostrate	Amaranthus blitoides	
Pigweed, redroot (rough)	Amaranthus retroflexus	
Pigweed, smooth	Amaranthus hybridus	
Pigweed, tumble	Amaranthus albus	
Pineappleweed	Matricaria matricarioides	
Poorjoe	Diodia teres	
Poppy, red horn	Glaucium comiculatum	
Puncturevine	Tribulus terrestris	
Purslane, common	Portulaca oleracea	
Pusley, Florida	Richardia scabra	
Radish, wild	Raphanus raphanistrum	
Ragweed, common	Ambrosia artemisiifolia	
Ragweed, giant	Ambrosia trifida	
Ragweed, lanceleaf	Ambrosia bidentata	
Rocket, London	Sisymbrium irio	

Table 1. Weeds Controlled or Suppressed (continued)

Common Name	Scientific Name
Annuals (continued)	
Rocket, yellow	Barbarea vulgaris
Rubberweed, bitter	Hymenoxys odorata
Salsify	Tragopogon porrifolius
Senna, coffee	Senna occidentalis
Sesbania, hemp	Sesbania exaltata
Shepherd's purse	Capsella bursa-pastoris
Sicklepod	Cassia obtusifolia
Sida, prickly (Teaweed)	Sida spinosa
Smartweed, green	Polygonum scabrum
Smartweed, Pennsylvania	Polygonum pensylvanicum
Sneezeweed, bitter	Helenium amarum
Sowthistle, annual	Sonchus oleraceus
Sowthistle, spiny	Sonchus asper
Spanish needles	Bidens bipinnata
Spikeweed, common	Hemizonia pungens
Spurge, prostrate	Chamaesyce humistrata
Spurry, corn	Spergula arvensis
Starbur, bristly	Acanthospermum hispidum
Starwort, little	Stellaria graminea
Sumpweed, rough	lva ciliata
Sunflower, common (wild)	Helianthus annuus
Thistle, Russian	Salsola iberica
Velvetleaf	Abutilon theophrasti
Waterhemp	Amaranthus tuberculatus
Waterprimrose, winged	Ludwigia decurrens
Wormwood	Artemisia annua
Biennials	
Burdock, common	Arctium minus
Carrot, wild	Daucus carota
Cockle, white	Melandrium album
Eveningprimrose, common	Oenothera biennis
Geranium, Carolina	Geranium carolinianum
Gromwell	Lithospermum spp.
Knapweed, diffuse	Centaurea diffusa
Knapweed, spotted Centaurea maculosa	
Mallow, dwarf	Malva borealis
Plantain, bracted	Plantago aristata

Table 1. Weeds Controlled or Suppressed (continued)

Common Name	Scientific Name	
Biennials (continued)		
Ragwort, tansy	Senecio jacobaea	_
Starthistle, yellow	Centaurea solstitialis	_
Sweetclover	Melilotus spp.	
Teasel	Dipsacus sativus	
Thistle, bull	Cirsium vulgare	
Thistle, musk	Carduus nutans	
Thistle, plumeless	Carduus acanthoides	
Thistle, variegated (milk)	Silybum marianum	
Perennials ¹		
Alfalfa	Medicago sativa	
Apple, tropical soda	Solanum viarum	
Artichoke, Jerusalem	Helianthus tuberosus	
Aster, spiny	Aster spinosus	
Aster, whiteheath	Aster pilosus	
Bedstraw, smooth	Gallium mollugo	
Bindweed, field	Convolvulus arvensis	
Bindweed, hedge	Calystegia sepium	
Blueweed, Texas	Helianthus ciliaris	
Bursage, woollyleaf	Ambrosia grayi	
Buttercup, tall	Ranunculus acris	
Campion, bladder	Silene vulgaris	
Chickweed, field	Cerastium arvense	
Chickweed, mouseear	Cerastium vulgatum	
Chicory	Cichorium intybus	
Clover, hop	Trifolium aureum	
Dandelion, common	Taraxacum officinale	
Dock, broadleaf (Bitterdock)	Rumex obtusifolius	
Dock, curly	Rumex crispus	
Dogbane, hemp	Apocynum cannabinum	
Dogfennel (Cypressweed)	Eupatorium capillifolium	
Fern, bracken	Pteridium aquilinum	
Garlic, wild	Allium vineale	
Goldenrod, Canada	Solidago canadensis	
Goldenrod, Missouri	Solidago missouriensis	
Goldenweed, common	Isocoma coronopifolia	
Hawkweed	Hieracium spp.	
Henbane, black	Hyoscyamus niger	

(continued)

Table 1. Weeds Controlled or Suppressed (continued)

Common Name	Scientific Name	
Perennials ¹ (continued)		
Horsenettle, Carolina	Solanum carolinense	
Ironweed	Vemonia spp.	
Knapweed, black	Centaurea nigra	
Knapweed, Russian	Centaurea repens	
Lespedeza, sericea	Lespedeza cuneata	
Milkweed, climbing	Sarcostemma cyanchoides	
Milkweed, common	Asclepias syriaca	
Milkweed, honeyvine	Ampelamus albidus	
Milkweed, western whorled	Asclepias subverticillata	
Nettle, stinging	Urtica dioica	
Nightshade, silverleaf	Solanum elaeagnifolium	
Onion, wild	Allium canadense	
Plantain, broadleaf	Plantago major	
Plantain, buckhorn	Plantago lanceolata	
Pokeweed	Phytolacca americana	
Ragweed, western	Ambrosia psilostachya	
Redvine	Brunnichia ovata	
Smartweed, swamp	Polygonum coccineum	
Snakeweed, broom	Gutierrezia sarothrae	
Sorrel, red (Sheep sorrel)	Rumex acetosella	
Sowthistle, perennial	Sonchus arvensis	
Spurge, leafy	Euphorbia esula	
Sundrop	Oenothera perennis	
Thistle, Canada	Cirsium arvense	
Thistle, Scotch	Onopordum acanthium	
Toadflax, Dalmatian	Linaria genistifolia	
Trumpetcreeper	Campsis radicans	
Vetch	Vicia spp.	
Waterhemlock, spotted	Cicuta maculata	
Waterprimrose, creeping	Ludwigia peploides	
Woodsorrel, creeping	Oxalis corniculata	
Woodsorrel, yellow	Oxalis stricta	
Wormwood, Louisiana	Artemisia ludoviciana	
Yankeeweed	Eupatorium compositifolium	
Yarrow, common	Achillea millefolium	
		(continued)

Table 1. Weeds Controlled or Suppressed (continued)

Common Name	Scientific Name	
Woody Brush and Vines ^{1,2}		
Alder	Alnus spp.	
Ash	Fraxinus spp.	
Basswood	Tilia americana	
Beech	Fagus spp.	
Birch	Betula spp.	
Cherry	Prunus spp.	
Chinquapin	Chrysolepis chrysophylla	
Cottonwood	Populus deltoides	
Cucumbertree	Magnolia acuminata	
Elm	Ulmus spp.	
Grape	Vitus spp.	
Hemlock	Tsuga spp.	
Hickory	Carya spp.	
Honeylocust	Gleditsia triacanthos	
Honeysuckle	Lonicera spp.	
Hornbeam	Carpinus spp.	
Huckleberry	Vaccinium arboreum	
Huisache	Acacia famesiana	
lvy, poison	Rhus radicans	
Kudzu	Pueraria lobata	
Locust, black	Robinia pseudoacacia	
Maple	Acer spp.	
Mesquite	Prosopis ruscifolia	
Oak	Quercus spp.	
Oak, poison	Rhus toxicodendron	
Olive, Russian	Elaeagnus angustifolia	
Persimmon, eastern	Diospyros virginiana	
Pine	Pinus spp.	
Poplar	Populus spp.	
Rabbitbrush	Chrysothamnus pulchellus	
Rose, multiflora	Rosa multiflorum	
Sassafras	Sassafras albidum	
Serviceberry	Amelanchier sanguinea	
Spicebush	Lindera benzoin	
Spruce	Picea spp.	
Sumac	Rhus spp.	
		(continued)

(continued)

Table 1. Weeds Controlled or Suppressed (continued)

Common Name	Scientific Name	
Woody Brush and Vines ^{1, 2} (Co	ontinued)	
Sycamore	Platanus occidentalis	
Tarbush	Flourensia cernua	
Willow	Salix spp.	
Witchhazel	Hamamelis macrophylla	

¹Suppression only.

Product Stewardship Practices

- Apply Engenia® herbicide to weeds 4 inches or less in size for best performance.
- Apply Engenia at the labeled rate to minimize the likelihood of weed resistance occurring. DO NOT apply at less than the labeled rate. See Crop-specific Information for labeled rates by crop.
- Use Engenia as part of a herbicide program that includes the use of residual herbicides and herbicides with alternate sites of action to reduce resistance selection pressure.
- Select only EPA-approved nozzles that produce extremely coarse to ultra-coarse spray droplets. See www.engeniatankmix.com for the list of nozzles approved for use with this product.
- Maintain boom height 24 inches or less from target.
- Identify areas of sensitive nontarget crops/plants and maintain proper setback distance from these areas (see Treatment Zone Awareness and Buffer Requirements (Sensitive Areas, Sensitive Crops and Residential Areas) section for Soray Buffer requirements).

Sensitive crops in agricultural and/or residential settings can include, but are not limited to:

- non-DT sovbeans
- cucumber and melons (EPA Crop Group 9)
- flowers
- fruit trees
- grapes
- ornamentals including greenhouse-grown and shade house-grown broadleaf plants
- peanuts
- peas and beans (EPA Crop Group 6)
- peppers, tomatoes, and other fruiting vegetables (EPA Crop Group 8)
- potato
- sweet potato
- tobacco
- Thoroughly clean spray equipment before and after application.

Mode of Action

Dicamba, the active ingredient in **Engenia**, is a **Group 4** (WSSA) herbicide. Herbicides in this group mimic auxin (a plant hormone) resulting in a hormone imbalance in sensitive plants that interferes with normal plant growth (e.g., cell division, cell enlargement, and protein synthesis). **Engenia** is readily absorbed by leaves, roots, and shoots; translocates throughout the plant; and accumulates in areas of active growth to provide postemergence control of emerged weeds as well as moderate residual control of germinating weed seeds.

Any weed population may contain plants naturally resistant to **Group 4** herbicides. Weeds resistant to **Group 4** herbicides may be effectively managed using herbicide(s) from a different group and/or by using cultural or mechanical practices. Report any incidence of non-performance of this product against a particular weed species at **www.EngeniaQuestions.com**. Consult your local BASF representative, state

cooperative extension service, professional consultants, or other qualified authority to determine appropriate actions if you suspect resistant weeds. Additional information about weeds which are known to be resistant to dicamba can be found at www.Resistance-Information.BASF.US.

Resistance Management

While weed resistance to **Group 4** herbicides is infrequent, populations of resistant biotypes are known to exist. Resistance management should be part of a diversified weed control strategy that integrates multiple options including chemical, cultural, and mechanical (tillage) control tactics. Cultural control tactics include crop rotation, proper fertilizer placement, optimum seeding rate/row spacino, and timely tillage.

To aid in the prevention of developing weeds resistant to this product, the following steps should be followed where practical:

- . Start clean with tillage or an effective burndown herbicide program.
- DO NOT rely on a single herbicide site of action for weed control during the growing season
- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Apply full labeled rates of Engenia for the most difficult-to-control weed in the field at the specified time (correct weed size) to minimize weed escapes. See Crop-specific Information for labeled rates by crop.
- Use of preemergence herbicides that provide soil residual control of broadleaf and grass weeds is recommended to reduce early season weed competition and allow for more timely in-crop postemergence herbicide applications.
- Avoid application of herbicides with the same site of action more than twice a season.
- Scout fields after application to detect weed escapes or shifts in weed species.
- Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species
- Report any incidence of non-performance of this product against a particular weed species to your BASF retailer, representative or online at www.EngeniaQuestions.com.
- If resistance is suspected, treat weed escapes with a herbicide having a mode of action other than **Group** 4 and/or use non-chemical methods to remove escapes, as is practical, with the goal of preventing further seed production.
- For more information about weeds that are known to be resistant to dicamba go to www.Resistance-Information.BASF.US.

Additionally, users should follow as many of the following herbicide resistance management practices as is practical:

- Use a broad spectrum soil-applied herbicide with other modes of action as a foundation in a weed control program.
- Utilize seguential applications of herbicides with alternative modes of action.
- Rotate the use of this product with non-Group 4 herbicides.
- Avoid making more than two applications of Engenia and any other Group 4 herbicides within a single growing season unless mixed with another mechanism of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Thoroughly clean plant residues from equipment before and after leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields during and after harvest to reduce weed seed production.
- Contact the local agricultural extension service, BASF representative, ag retailer or crop consultant for further guidance on weed control practices as needed.

² Not for use in California.

³ Except dicamba resistant.

Crop Tolerance

Crops growing under normal environmental conditions are tolerant to Engenia® herbicide when applied according to label directions. Crop injury may occur under stressful growing conditions (e.g., low soil fertility, seedling disease, extreme hot or cold weather, excessive moisture, high soil pH, high soil salt concentration, drought).

Application Instructions

Apply Engenia by ground to actively growing weeds as a band, broadcast, or spot spray application for postemergence control of emerged weeds as well as moderate residual control of germinating weed seeds.

Make postemergence applications of Engenia when broadleaf weeds are small and actively growing. An adjuvant is recommended with **Engenia** for best postemergence activity: refer to Tank Mixing Information section and Crop-specific Information sections for details. Postemergence activity may be slowed or reduced under cloudy and/ or foggy or cooler weather conditions, or when weeds are growing under drought or other stress conditions. When targeting dense weed populations and/or larger broadleaf weeds, use higher spray volumes and a higher application rate within an application rate range.

Cultivation should be delayed until 7 days after applying **Engenia** or a reduction in weed control may occur.

Use extreme care when applying **Engenia** to prevent injury to desirable plants. **Engenia** may cause injury to desirable sensitive plants when contacting their roots, stems, or foliage.

Application Rates

Always read and follow crop-specific use directions.

Table 2. Application Rate to Control or Suppress Target Weed by Weed Type and Growth Stage for Non-DT Use Sites

(See Crop-specific Information section for additional directions and exceptions)		
Weed Type and Growth Stage	Rate/Acre ^{2,5} (fl ozs)	
Annual		
Small, actively growing ¹ (less than 4-inches tall)	3.2 to 12.8	
Small, actively growing (less than 4-inches tall) plus moderate residual control	12.8	
Biennial		
Rosette diameter 1 to 3 inches ¹ Rosette diameter more than 3 inches	6.4 to 12.8 12.8	
Perennial ³		
Top growth suppression Top growth control and root suppression	6.4 to 12.8 12.8	
Woody Brush and Vines ^{3,4}		
Top growth suppression	12.8	

- Although rates below 12.8 fl ozs/A (refer to crop-specific sections of the label for minimum use rates) may provide adequate control of annual and biennial weeds, for optimum performance use the higher listed rates or apply the lower listed rate as a tank mix with other herbicides that are effective on the same species and biotype.
- ²Use the higher rate within listed ranges when treating weeds resistant to other sites of action, dense vegetative growth, or weeds with a well-established root system. The higher rates also provide moderate residual annual weed control.
- Engenia will suppress the top growth of herbaceous perennial and woody brush and vines and can be combined with other herbicides to improve control. 4 Not for use in California.
- DO NOT broadcast-apply more than 12.8 fl ozs/A per application. Retreatment or tank mixes may be necessary for best control of some weeds. However, sequential applications must not exceed a maximum cumulative total of 51.2 fl ozs/A of Engenia (2 lbs dicamba ae/A) per vear.

Application Methods and Equipment

Apply Engenia by ground. Thorough spray coverage is important for best broadleaf weed control and can be improved with adjuvant, nozzle, and spray volume selection.

Calibrate application equipment for accurate target spray volume and application rate to ensure uniform distribution of spray and to avoid spray drift to nontarget areas. Adjust equipment to maintain continuous agitation during spraying with good mechanical or bypass agitation. Avoid overlaps that will increase rates above the labeled use rates.

Engenia may be applied using water; consult crop-specific information sections of this label for other spray carrier options.

Ground Application

Banding Applications

When applying **Engenia** by banding, use the following formula to calculate the amount of herbicide and water volume needed:

Bandwidth in inches	— х	x Broadcast rate per acre	=	Banding herbicide rate per acre
Row width in inches				
Bandwidth in inches	— х	Broadcast		Banding water volume
Row width in inches		volume per acre	=	per acre

Broadcast Applications

Dandwidth in inches

Unless noted in the crop-specific information section, use a spray volume of 15 gallons of water or more per treated acre. Thorough coverage of existing vegetation is essential for postemergence applications; higher spray volumes may be necessary for optimum performance.

Wiper Applications

Engenia may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush, and vines. Use a 50% solution containing 1 part Engenia to 1 part water.

- DO NOT apply more than 12.8 fl ozs/A of Engenia [0.5 lb dicamba acid equivalent (ae) per acrel per application.
- DO NOT contact desirable vegetation with herbicide solution. Wiper application may be made to crops (including pastures) and noncropland areas described in this label. **EXCEPTION: DO NOT** use wiper application on non-dicamba-tolerant cotton or sovbean.

Spray System Equipment Clean-out

As part of the Restricted Use Product requirements, applicators must document that they have complied with the Spray System Equipment Clean-out section of this label.

The applicator must ensure that the spray system used to apply **Engenia** is clean before application. Severe crop injury may occur if any **Engenia** remains in the spray equipment following application and is subsequently applied to sensitive crops. Additionally, small quantities of ammonium sulfate (AMS) can increase the volatility potential of Engenia. After using Engenia, clean all mixing and spray equipment (including tanks, pumps, lines, filters, screens, and nozzles) with a strong detergent based sprayer cleaner. Dispose of rinsate in compliance with local, state, and federal guidelines.

- 1. After spraying, drain the sprayer (including boom and lines). Avoid allowing the spray solution to remain in the spray boom lines overnight or for extended periods of time
- 2. Flush tank, hoses, boom, and nozzles with clean water. Open boom ends and flush if so equipped.
- Inspect and clean all strainers, screens, and filters.
- 4. Use commercial sprayer cleaner containing strong detergents according to the manufacturer's directions.

- Wash all parts of the tank, including the inside top surface. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible denosits must be removed from the spraying system.
- Flush hoses, spray lines, and nozzles with the cleaning solution for at least 1 minute. Remove nozzles, screens, and strainers, and clean separately in the cleaning solution after completing the above procedure.
- 7. Drain pump, filter, and lines.
- 8. Rinse the complete spraying system with clean water.
- 9. Clean and rinse the exterior of the sprayer.
- Appropriately dispose of all rinsate in compliance with local, state, and federal requirements.

Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The spray system and weather-related factors determine the potential for spray drift. The applicator is responsible for considering these factors when making application decisions to avoid spray drift onto nontarget areas.

Applicators must follow application requirements to avoid spray drift hazards, including those found in this labeling and applicable state and local regulations and ordinances. Where states have more stringent regulations, they must be observed.

All application equipment must be properly maintained and calibrated using appropriate carriers.

DO NOT allow herbicide solution to drip, physically drift, or splash onto desirable vegetation because severe injury or destruction to desirable broadleaf plants could result. The following physical spray drift management requirements must be followed.

Controlling Droplets

Drift potential may be reduced by applying large droplets that provide sufficient coverage and control. Applying larger droplets can reduce drift potential, but will not prevent drift if the application is made improperly, or under unfavorable environmental conditions (see the **Temperature Inversions** and the **Wind Speed and Direction Requirements** sections).

- Nozzle Type Use only approved nozzles when applying Engenia® herbicide. To find a list of approved nozzles visit www.engeniatankmix.com no more than seven days prior to applying Engenia.
- Pressure D0 N0T exceed the nozzle manufacturer's specified pressures or maximum pressures as listed for specific nozzles on www.engeniatankmix.com. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate (large orifice) nozzles instead of increasing pressure. Ensure sprayer rate controller hardware (if so equipped) does not allow pressure increases above the desired rance.
- Spray Volume Apply this product in a minimum of 15 gallons of spray solution per acre. Use a higher spray volume when treating dense vegetation. Higher spray volumes may also allow the use of larger nozzle orifices (sizes) which produce coarser spray droplets.
- Equipment Ground Speed Select a ground speed that will deliver the desired spray volume while maintaining the desired spray pressure, but DO NOT exceed a ground speed of 15 miles per hour. Slower speeds generally result in better spray coverage and deposition on the target area. It is recommended that ground speed be reduced to 5 miles per hour when making applications to the edge of the treatment area
- Spray Boom Height Spray at the appropriate boom height based on nozzle selection
 and nozzle spacing, but DO NOT exceed a boom height of 24 inches above target pest
 or crop canopy. Set boom to lowest effective height over the target pest or crop canopy
 based on equipment manufacturer's directions. Automated boom height controllers are
 recommended with large booms to better maintain optimum nozzle to canopy height.
 Excessive boom height will increase the potential for spray drift.

 Hooded Spray Booms - Hooded spray booms are another tool that can be used to minimize spray drift potential. Engenia may be applied using a hooded spray boom in combination with approved nozzles; however, the applicator must ensure the configuration is compatible with equipment used.

Temperature Inversions

- DO NOT apply Engenia when temperature inversions exist at the field level.
- Apply only during the following period: D0 NOT make applications at night.
 Applications are only permitted beginning one hour after sunrise, and ending two hours before sunset.

Temperature inversions increase drift potential by reducing atmospheric mixing and dispersion of any suspended spray mixture. Suspended spray residues can move in unpredictable directions because of the light, variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light-to-no wind.

Inversions begin to form as the sun sets and often continue into the morning before surface warming. Their presence can be indicated by ground fog, smoke not rising, dust hanging ower a road, or presence of dew or frost. Smoke that layers and moves laterally (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Inversion conditions typically dissipate with increased winds (above 3 MPH) or when surface air begins to warm (3° F from morning low).

Treatment Zone Awareness and Buffer Requirements (Sensitive Areas, Sensitive Crops and Residential Areas)

Sensitive Areas

Engenia should only be applied when there is low potential for drift to sensitive areas (see **Definitions**). It is best to apply when the wind is blowing away from sensitive areas.

Spray Buffer Requirement: Applicator must always maintain a 110 foot buffer when applying this product from the downwind outer edges of the field.

To maintain the required buffer zone:

- No application swath containing Engenia can be initiated in, or into an area that is within the applicable buffer distance.
- Nonsensitive Crops and Areas (see Definitions) May be included in the buffer distance calculation when within 110 feet of field edges.

Sensitive Crops and Residential Areas

- D0 NOT apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.
- During application and sprayer clean-out, DO NOT allow contact of herbicide with foliage, green stems, exposed non-woody roots of crops, and desirable plants.

. Downwind and Shifting Winds

- DO NOT apply when wind is blowing in the direction of neighboring sensitive crops or residential areas.
- The appropriate distance must be determined by the applicator relative to where the application is being made, the environmental conditions, and the potential risk to downwind sensitive crops and residential areas.
- The applicator also must be aware that WIND DIRECTION may vary during the application. If wind direction shifts such that the wind is blowing toward neighboring sensitive crops or residential areas, STOP the application.

Survey the area before spraying: Small amounts of spray drift that may not be visible may injure sensitive broadleaf plants. Before making an application, the applicator must survey the application site for neighboring sensitive crops and residential areas. The applicator must consult sensitive crop registries where available. Refer to Sensitive Crops Awareness section for record keeping requirements within the RESTRICTED USE PESTICIDE RECORD KEEPING REQUIREMENTS section.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

The interaction of equipment and weather related factors must be monitored to maximize performance and on-target spray deposition. The applicator is responsible for considering all of these factors when making a spray decision. The applicator is responsible for compliance with state and local pesticide drift regulations.

Definitions

- Sensitive Areas Bodies of water and nonresidential, uncultivated areas that may harbor sensitive plant species.
- Sensitive Crops and Residential Areas Food, forage, or other plantings grown for sale, use or consumption. Sensitive crops/plants also can be present in nonagricultural settings, such as residential areas. Examples include, but are not limited to:
 - non-DT soybeans
 - cucumber and melons (EPA Crop Group 9)
 - flowers
 - fruit trees
 - grapes
 - ornamentals including greenhouse-grown and shade house-grown broadleaf
 - neanuts
 - peas and beans (EPA Crop Group 6)
 - peppers, tomatoes, and other fruiting vegetables (EPA Crop Group 8)
 - potato
 - sweet potato
 - tobacco

Severe injury or destruction could occur if any contact between this product and these crops/plants occurs.

Nonsensitive Crops and Areas

- Roads, paved or gravel surfaces, mowed and/or managed areas adjacent to field, such as roadside rights-of-way.
- 2. Agricultural fields that have been prepared for planting.
- 3. Planted agricultural fields containing asparagus, corn, DT cotton, DT soybeans, sorghum, proso millet, small grains and sugarcane. If the applicator intends to include such crops as dicamba tolerant cotton and/or dicamba tolerant soybeans in the buffer distance calculation, the applicator must confirm the crops are in fact dicamba tolerant.
- Areas covered by the footprint of a building, shade house, silo, feed crib, or other man-made structure with walls and or roof.

Additional restrictions for the protection of specific sensitive areas may be required when making applications to DT cotton and DT soybeans. Use of this product may pose a hazard to endangered or threatened species. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. To obtain Bulletins, no more than six months before using this product, consult http://www.epa.gov/espp/ or call 1-844-447-3813. You must use the Bulletin valid for the month in which you will apply the product. Please Note: Additional endangered or threatened species obligations are listed under Endangered Species on this label. See Crop-specific Information – Dicamba-tolerant (DT) Crops section for more details regarding protection of endangered species.

Wind Speed and Direction Requirements

- Wind Speed 3 to 10 mph
- Wind Direction Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect drift.

Tank Mixing Information

Engenia® herbicide may only be tank mixed with products that have been tested and found by the EPA not to have an unreasonable adverse effect on the spray drift properties of Engenia. A list of those EPA approved products may be found at www.engeniatankmix.com. D0 N0T tank mix any product with Engenia unless:

- You check the list of EPA approved products for use with Engenia at www.engeniatankmix.com no more than 7 days before applying Engenia; and
- The intended product tank mix with Engenia is identified on that list of tested and approved products: and
- 3. The intended product to be tank mixed with **Engenia** is not prohibited on this label.

 4. Additional Warnings and Restrictions:
 - Some COC, HSOC and MSO adjuvants may cause a temporary crop response.
 - DO NOT tank mix products containing ammonium salts such as ammonium sulfate and urea ammonium nitrate (UAN).
 - DO NOT add adjuvants that will further decrease pH or acidify the spray solution.
 - Spray mixtures with lower pH levels (less than pH 5) can increase the potential volatility of dicamba. To mitigate this potential it is important to know the pH of your spray mixture and make appropriate adjustments. Talk with your local agricultural consultant, extension agent, or BASF representative for recommendations to prevent low pH spray mixtures.
 - Use of an approved neutral buffering agent may be warranted if the water source or tank mix components will create an acidic spray solution less than pH 5. One possible way to check the pH of the spray mixture is with a litmus paper test. If the pH needs to be increased then consider using an approved neutral buffering agent.
 - Hard water does not usually affect the activity of Engenia; however, other tank mix components may be adversely affected (e.g. glyphosate). Use of an approved conditioning agent should be considered when hard water (i.e. total calcium, magnesium, and iron content above 500 ppm) is used as a spray carrier.
 - Drift reduction agents listed on the website above can minimize the percentage
 of driftable fines. However, the applicator must check with the DRA manufacturer
 to determine if the approved DRA will work effectively with the spray nozzle, the
 spray pressure, and the desired spray solution.

For an up to date and complete list of approved tank mix options with **Engenia**, visit **www.engeniatankmix.com**.

Refer to the tank mix product labels to confirm that the respective tank mix products are registered for the specific crop use; follow required crop rotation restrictions. Read and follow the applicable restrictions and limitations and **Directions For Use** on all product labels involved in tank mixing. Always follow the most restrictive label use directions; refer to croo-specific information section for details.

Mixing **Engenia** with postemergence grass (graminicide) herbicides may reduce the effectiveness of those products. Follow graminicide label when mixing with **Engenia** to ensure optimum weed control. Physical incompatibility, reduced weed control, or crop injury may result from mixing **Engenia** with other pesticides, additives, nutritionals, etc.

Adjuvants. BASF recommends the use of quality adjuvants with Engenia such as Astonish™, Class Act® Ridion®, Grounded®, Iconic®, Jackhammer™ Elite, R-11®, Strike Force®, and Verifact.

Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test.

- For 20 gallons per acre spray volume, use 3.3 cups (800 mL) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.
- Add components in the sequence indicated in the following Mixing Order instructions using 2 teaspoons for each pound or 1 teaspoon for each pint of labeled use rate ner acre.
- 3. Cap the jar and invert 10 cycles between component additions.

- 4. When the components have all been added to the jar, let the solution stand for 15 minutes.
- 5. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface; fine particles that precipitate to the bottom; or thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, DO NOT mix the ingredients in the same tank.

Mixing Order

Make sure each component is thoroughly mixed and suspended before adding tank mix partners. Except when mixing products in PVA bags, maintain constant agitation during mixing and application.

- 1. **Water** Begin by agitating a thoroughly clean sprayer tank 1/2 to 3/4 full of clean water. 2. **Inductor** - If an inductor is used, rinse it thoroughly after each component has been
- Products in PVA bags Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 4. Water-soluble additives
- Water-dispersible products (such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
- 6. Water-soluble products and additives (Engenia® herbicide)
- 7. Emulsifiable concentrates (including NIS and oil concentrate)
- 8. Remaining quantity of water

Maintain continuous and constant agitation throughout mixing and application until spraying is completed. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed. Continue agitation while spraying.

Use Precautions

- Maximum Seasonal Use Rate Refer to crop-specific information sections for maximum seasonal application rates for each crop or use pattern.
- Stress Application to crops under stress because of lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures may result in crop injury.
- Rainfast Period Engenia is rainfast 4 hours after application. Postemergence activity may be reduced if rain or irrigation occurs within 4 hours of application.

Use Restrictions

Applicator MUST ALSO follow restrictions under Crop-specific Information section(s).

- . DO NOT apply this product aerially.
- D0 N0T apply Engenia with ammonium-containing additives, conditioners, or fertilizers (e.g. AMS, UAN). Small quantities of AMS can greatly increase the volatility potential of dicamba.
- DO NOT apply Engenia if expected rainfall amount may exceed soil field capacity and result in soil runoff in the next 24 hours.
- DO NOT apply Engenia if wind speed is less than 3 mph or greater than 10 mph.
- DO NOT apply Engenia at night. DO NOT apply earlier than one hour after sunrise or later than two hours before sunset.
- DO NOT contaminate irrigation ditches or water used for domestic purposes.
- DO NOT apply Engenia through any type of irrigation system (e.g. chemigation).

- DO NOT tank mix Engenia with Lorsban® insecticide.
- In DT cotton, DO NOT apply Engenia later than 60 days after planting or mid-bloom, whichever comes first.
- In DT soybeans, DO NOT apply Engenia later than 45 days after planting or R1, whichever comes first.

Crop Rotation Restrictions

Use the following information to determine the required interval between **Engenia** application and rotational crop planting as well as replanting after crop failure because of environmental factors such as drought, frost, or hail. Determine the rotational crop interval for tank mix products and use the most restrictive interval of all products annied.

Table 3. Crop Rotation Restrictions by Application Rate

	Engenia (fl ozs/A)		
Crop	≤ 6.4	9.6	12.8
	Rotational Crop Interval¹ (days after application)		
Corn	0	0	0
Cotton, non-DT ²	21 [†]	28	42
Cotton, DT	0	0	0
Sorghum	14	21	28
Soybean, non-DT ²	14	21	28
Soybean, DT	0	0	0
Grasses ³ 30 inches or more annual precipitation	14	21	28
Grasses³ less than 30-inches annual precipitation	21	28	42
All other crops	120	120	120

¹ DO NOT include time when the soil is frozen and days before receiving any required rainfall or overhead irrigation.

²Following application of **Engenia** and a minimum accumulation of 1 inch of rainfall or overhead irrigation, observe the indicated waiting interval.

³ Includes barley, oats, wheat, and other grass crops. Small grains may be planted with no waiting interval following **Engenia** applied at 3.2 fl ozs/A.

Missouri and Tennessee Only. Following application of Engenia, wait until an accumulation of 1 inch of rainfall or irrigation followed by an interval of 14 days per 6.4 fl ozs/A or less before planting cotton. This interval must be observed before planting cotton or severe crop injury may occur.

Dicamba-tolerant (DT) Crops

Engenia® herbicide is EPA approved for use in DT crops in the following states:

Alabama, Arizona, Arkansas, Colorado, Delaware, Florida (excluding Palm Beach County), Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, South Carolina, South Dakota, Tennessee (excluding Wilson County), Texas, Virginia, West Virginia, Wisconsiin.

Within the above listed states, **Engenia** is subject to area-specific restrictions as required by **http://www.epa.gov/espp/** that must be consulted prior to making an **Engenia** application in DT cotton and DT soybeans. Prior to making an **Engenia** application in DT cotton or DT soybeans, an applicator must visit **http://www.epa.gov/espp/** to determine if there are any additional restrictions on **Engenia** use within the area to be sprayed. Within the defined areas, in combination with the 110 foot infield wind-directional spray drift buffer, a 57 foot omnidirectional infield buffer is required to protect federally listed threatened and endangered species. Nonsensitive areas defined below may be included as part of the buffer.

Nonsensitive areas - The following areas may be included in the buffer distance calculation when directly adjacent to the treated field edges:

- Roads, paved or gravel surfaces, mowed and/or managed areas adjacent to field such as rights of way.
- 2. Planted agricultural fields containing: corn, dicamba tolerant cotton, dicamba tolerant soybean, sorghum, proso millet, small grains and sugarcane. If the applicator intends to include such crops as dicamba tolerant cotton and/or dicamba tolerant soybeans in the buffer distance calculation, the applicator must confirm the crops are in fact dicamba tolerant.
- 3. Agricultural fields that have been prepared for planting.
- Areas covered by the footprint of a building, shade house, silo, feed crib, or other man-made structure with walls and or roof.

The following directions are specific for Engenia use in DT cotton and DT soybeans.

Depending on specific crop application directions, **Engenia** may be applied for postemergence control of emerged broadleaf weeds and/or residual control of germinating broadleaf weed seeds before crop planting (preplant and/or preseed) and after planting (preemergence, postemergence). Refer to **Table 1** for list of weeds controlled or suppressed.

Engenia may be applied preplant, at-planting, preemergence, and postemergence (in-crop) for weed control in DT cotton and DT soybeans.

Dicamba-tolerant (DT) Cotton

Engenia may be applied preplant surface, preemergence, or postemergence (over the top) by ground only to control or suppress many annual, biennial, and perennial broadleaf weeds (see Table 1) in dicamba-tolerant (DT) cotton. If Engenia is applied to non-dicamba-tolerant cotton other than as directed, severe crop injury will result. For non-dicamba-tolerant cotton information, see Cotton section in Crop-specific Information section.

Cotton gin byproducts may be fed to livestock.

Application Rates and Timings

Maximum Application Rates in DT Cotton

maximum Application flates in 51 oction			
Application Timing	Amount (fl ozs/A)		
Single Preplant Preemergence Postemergence	12.8 (0.5 lb dicamba ae/A)		
All Applications Combined Total per Season	51.2 (2 lbs dicamba ae/A)		
Total Preplant and Preemergence	25.6 (1 lb dicamba ae/A)		
Total Postemergence	25.6 (1 lb dicamba ae/A)		

Application of **Engenia** plus specified adjuvants (refer to **Tank Mixing Information** section for details) may be made before and after cotton emergence. Separate sequential applications by 7 days or more. For best performance, apply **Engenia** when weeds are less than 4 inches in height and rosettes are less than 2-inches across. Timely application will improve control and reduce weed competition. Apply preplant, preemergence, and postemergence to DT cotton only by ground. **DO NOT** apply more than 51.2 fl ozs/A of **Engenia** per year (single growing season).

Preplant and Preemergence Applications

Engénia can be applied at 12.8 fl ozs/Å before, during, or after planting DT cotton. Engénia will provide burndown of emerged weeds. Apply as a sequential application with other preemergence herbicides to control emerged grass weeds and other broadleaf weeds, and with a preemergence residual herbicide to control germinating weed seeds. Early season weed control is critical for minimizing weed competition and protecting crop yield potential.

Postemergence Applications

Apply **Engenia** postemergence at 12.8 fl ozs/A from cotton emergence through 60 days after planting or mid-bloom, whichever comes first. **DO NOT** apply more than 12.8 fl ozs/A in a single postemergence over-the-top application of **Engenia**. A total of two postemergence applications can be made in cotton.

For best weed control, **Engenia** applications should be made early in the season to small (less than 4-inches tall), actively growing weeds. Sequential postemergence applications may be necessary to control new weed flushes. Allow at least 7 days between applications. **DO NOT** apply **Engenia** postemergence more than twice in a season. Apply **Engenia** in a herbicide program that includes sequential application of herbicides with a different mechanism of action to control new weed regrowth.

Postemergence applications of **Engenia** mixed with some adjuvants may cause injury to DT cotton (see **Tank Mixing Information** section for details). Injury symptoms usually appear as necrotic spots on leaves. Potential for injury may be reduced when applications are made with spray volumes of at least 15 GPA and lower adjuvant rates. Symptomology is temporary with cotton recovering quickly after application.

Use with Other Herbicides

Broad-spectrum control of grass weeds or additional broadleaf weeds may require a sequential herbicide application. **Engenia** may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Outlook® herbicide
- Prowl® H20 herbicide
- glyphosate (e.g. Roundup® herbicide)

For approved tank mix options see www.engeniatankmix.com.

Crop-specific Information - Dicamba-tolerant (DT) Crops (continued)

DT Cotton Restrictions

- DO NOT apply Engenia® herbicide to non-dicamba-tolerant cotton varieties other than as directed or severe cotton injury will occur; refer to Cotton section in Cropspecific Information section.
- DO NOT make more than two applications preplant or preemergence per year.
- DO NOT apply more than 12.8 fl ozs/A (0.5 lb ae/A) per preplant or preemergence application.
- DO NOT make more than two applications postemergence per year.
- **DO NOT** apply more than 12.8 fl ozs/A (0.5 lb ae/A) per postemergence application.
- DO NOT apply Engenia later than 60 days after planting or mid-bloom, whichever comes first.
- DO NOT apply more than 51.2 fl ozs/A (2 lbs ae/A) per season.
- Use caution when tank mixing Engenia with approved emulsifiable concentrates (EC) or oil-based products that may increase the potential for crop injury.

Dicamba-tolerant (DT) Sovbean

Engenia may be applied preplant surface, preemergence, or postemergence (over the top) by ground only to control or suppress many annual, biennial, and perennial broadleaf weeds (see **Table 1**) in dicamba-tolerant (DT) soybean. If **Engenia** is applied to non-dicamba-tolerant soybean other than as directed, severe crop injury will result. For non-dicamba-tolerant soybean information, see **Soybean** section in **Crop-specific Information** section

Application Rates and Timings

Maximum Application Rates in DT Soybean

Application Timing	Amount (fl ozs/A)
Single Preplant Preemergence Postemergence	12.8 (0.5 lb dicamba ae/A)
All Applications Combined Total per Season	51.2 (2 lbs dicamba ae/A)
Total Preplant and Preemergence	25.6 (1 lb dicamba ae/A)
Total Postemergence	25.6 (1 lb dicamba ae/A)

Application of **Engenia** plus specified adjuvants (refer to **Tank Mixing Information** section for details) may be made before and after soybean emergence. Separate sequential applications by 7 days or more. For best performance, apply **Engenia** when weeds are less than 4 inches in height and rosettes are less than 2-inches across. Timely application will improve control and reduce weed competition. Apply preplant, preemergence, and postemergence to DT soybean only by ground.

Preplant and Preemergence Applications

Engenia can be applied at 12.8 fl ozs/Å before, during, or after planting dicamba-tolerant soybean. Engenia will provide burndown of emerged weeds and moderate residual activity. Apply as a sequential application with other labeled herbicides to control emerged grass weeds and other broadleaf weeds, and with a preemergence residual herbicide to control germinating weed seeds. Early season weed control is critical for minimizing weed competition and protecting crop yield potential.

Postemergence Applications

Up to two postemergence applications using 12.8 fl ozs/A of **Engenia** per application may be made from soybean emergence through 45 days after planting or R1, whichever comes first. Allow at least 7 days between applications. **D0 NOT** apply more than a maximum cumulative total of 25.6 fl ozs/A of **Engenia** postemergence.

Engenia applications should be made to small (less than 4-inches tall), actively growing weeds. Sequential postemergence applications may be necessary to control new weed flushes. For best results, apply Engenia in a herbicide program that includes sequential application of herbicides with a different mechanism of action to control new weed drowth.

Postemergence applications of **Engenia** may cause dicamba-tolerant soybeans to wilt or droop shortly after application. Symptomology is transient, and soybeans recover quickly after application.

Use with Other Herbicides

Broad-spectrum control of grass weeds or additional broadleaf weeds may require a sequential herbicide application. **Engenia** may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Optill® powered by Kixor® herbicide
- Outlook® herbicide
- Prowl® H20 herbicide
- Pursuit® herbicide
- Raptor[®] herbicide
- Sharpen® powered by Kixor® herbicide
- Varisto® herbicide
- Verdict[®] powered by Kixor[®] herbicide
- Zidua® herbicide
- Zidua® PRO powered by Kixor® herbicide
- clethodim (e.g. Select Max® herbicide)
- glyphosate (e.g. Roundup® herbicide)

For approved tank mix options see www.engeniatankmix.com.

DT Sovbean Restrictions

- DO NOT apply Engenia to non-dicamba-tolerant soybean varieties other than as directed or severe soybean injury will occur; refer to Soybean section in Cron-specific Information section.
- DO NOT make more than two applications preplant or preemergence per year.
- DO NOT apply more than 12.8 fl ozs/A (0.5 lb ae/A) per preplant or preemergence application.
- DO NOT make more than two applications postemergence per year.
- **DO NOT** apply more than 12.8 fl ozs/A (0.5 lb ae/A) per postemergence application.
- DO NOT apply Engenia later than 45 days after planting or R1, whichever comes first.
- DO NOT apply more than 51.2 fl ozs/A (2 lbs ae/A) per season.
- Use caution when tank mixing Engenia with approved emulsifiable concentrates (EC) or oil-based products that may increase the potential for crop injury.
- Soybean Forage: Allow at least 7 days between final application and harvest or feeding of soybean forage.
- Soybean Hay: Allow at least 14 days between final application and harvest or feeding of soybean hay.

This section provides use directions for **Engenia® herbicide** in conventional (non-DT) crops. Read product information, application instructions, weeds controlled, and additive instructions in preceding sections of the label.

Depending on specific crop application directions, **Engenia** may be applied for postemergence control of emerged broadleaf weeds and/or residual control of germinating broadleaf weed seeds before crop planting (preplant and/or presseed) and after planting (preemerqence, postemergence). Refer to **Table 1** for list of weeds controlled or suppressed.

Asparagus

Engenia may be applied immediately after cutting asparagus but at least 24 hours before the next cutting. Apply 6.4 to 12.8 fl ozs/A of Engenia in 40 to 60 gallons of diluted spray to emerged and actively growing weeds. Apply 12.8 fl ozs/A of Engenia to control common chickweed, field bindweed, nettleleaf goosefoot, and wild radish. To improve control of Canada thistle and field bindweed, apply Engenia in combination with olvohosate (e.g. Roundup® herbicide) or sequentially with 2.4-D.

If spray contacts emerged spears, crooking (twisting) of some spears may result. If crooking occurs, discard affected spears.

Asparagus Restrictions

- DO NOT apply more than a total of 12.8 fl ozs/A of Engenia (0.5 pound dicamba ae/A) per year in asparagus.
- . DO NOT harvest for 24 hours after treatment.
- . DO NOT use in the Coachella Valley of California.

Between Crop Application

Engenia may be used as a burndown treatment to control broadleaf weeds at any time of the year during the fallow period following crop harvest and before the following crop is planted. Apply Engenia as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (postharvest) and before a killing frost, or in fallow cropland or crop stubble the following spring or summer.

Application Rates and Timings

Apply **Engenia** as a broadcast or spot treatment at 3.2 to 12.8 fl ozs/A plus specified adjuvants; see **Tank Mixing Information** section for details. Refer to **Table 2** to determine use rates for specific targeted weed species. For best performance, apply **Engenia** when annual weeds are less than 4-inches tall, when biennial weeds are in the rosette stage, and to perennial weed regrowth in late summer or fall following a mowing or tillage treatment. For the most effective control of upright perennial broadleaf weeds such as Canada thistle and Jerusalem artichoke, apply **Engenia** when the majority of weeds have at least 4 inches of regrowth, or for weeds such as field bindweed and hedge bindweed that are in or beyond the full bloom stage.

Avoid disturbing treated areas following application. Treatments may not kill weeds that develop from seed or underground plant parts, such as rhizomes or bulblets, after the effective period for **Engenia**. For seedling control, a follow-up program or other cultural practices should be instituted. For small grain in-crop uses of **Engenia**, refer to **Small Grain** section for details.

Specific crop rotation intervals must be observed between an application of Engenia and planting the following crop; see Crop Rotation Restrictions in Use Restrictions section.

Use with Other Herbicides

Broad-spectrum burndown control of grass weeds and/or additional broadleaf weeds requires another herbicide. **Engenia** may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Distinct® herbicide
- Facet® L herbicide
- Outlook® herbicide
- · Sharpen® powered by Kixor® herbicide
- Verdict® powered by Kixor® herbicide
- 2.4-D
- glyphosate (e.g. Roundup)

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Between Crop Application Restrictions

- DO NOT apply more than 12.8 fl ozs/A (0.5 pound dicamba ae/A) in a single application of Engenia as a between crop application.
- DO NOT apply more than a maximum cumulative total of 2 pounds dicamba ae/A from all product sources per cropping season.

Conservation Reserve Program (CRP)

Engenia may be used on both newly seeded and established grasses grown in the Conservation Reserve or federal Set-Aside Programs. Treatment with Engenia will injure or may kill alfalfa, clovers, lespedeza, wild winter peas, vetch, and other legumes.

Application Rates and Timings

Engenia may be applied at 3.2 to 12.8 fl ozs/A; refer to **Table 2** for rates based on target weed type and growth stage.

Newly Seeded Areas

Engenia may be applied either preplant or postemergence to newly seeded grasses or small grain including barley, oats, rye, sudangrass, wheat, or other grain species grown as a cover crop. Postemergence application may be made after seedling grasses exceed the 3-leaf stane.

Preplant Intervals. Preplant applications at 12.8 fl ozs/A may injure new seedings if the interval between application and grass planting is less than:

- 20 days 30 inches or more annual precipitation
- . 45 days less than 30-inches annual precipitation

Established Grass Stands

Established grass stands are perennial grasses planted one or more seasons before treatment. Certain species (bentgrass, buffalograss, carpetgrass, St. Augustinegrass, or smooth brome) may show a response when treated with Engenia.

Use with Other Herbicides

Broad-spectrum control of broadleaf and grass weeds requires another herbicide. Engenia may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Facet
- atrazine
- glyphosate (e.g. Roundup)
- paraguat (e.g. Gramoxone® SL herbicide)

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and orecautionary statements of each product in the tank mixture.

CRP Restrictions

- DO NOT apply more than 12.8 fl ozs/A of Engenia® herbicide per application.
- DO NOT apply more than a maximum cumulative total of 51.2 fl ozs/A of Engenia (2 lbs dicamba ae/A) per season.
- Engenia may injure newly seeded grasses and certain species, such as bentgrass, buffalograss, carnetgrass, St. Augustinegrass, or smooth brome.

Corn (field, seed, silage) and Popcorn

Engenia may be applied preplant surface, preemergence, or postemergence to corn. Corn in this label refers to conventional or herbicide-tolerant field corn (grown for grain, seed, or silage) and popcorn. Before applying Engenia to seed corn or popcorn, verify with your local seed company (supplier) the selectivity of Engenia on your inbred line or hybrid to help avoid potential injury to sensitive inbreds or hybrids.

Engenia is not registered for use on sweet corn.

Direct contact of **Engenia** with corn seed must be avoided. If corn seeds are less than 1.5 inches below the soil surface, delay application until corn has emerged.

Postemergence applications of **Engenia** to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3 to 7 days. To avoid breakage, delay cultivation until after corn is growing normally.

Application Rate

Engenia application rates vary by soil texture, organic matter, and application timing. Refer to Table 4 for Engenia application rates by application timing. Up to 2 applications of Engenia may be made during a growing season. Sequential applications must be separated by 2 weeks or more.

Table 4. Engenia Application Rates for Corn

		Application Rate (fl ozs/A)			
Soil	on organic Preemergence		Preemergence	Postemergence	
Texture	Matter	No Tillage	Conventional/ Reduced Tillage	Early ³	Late ⁴
Coarse ¹	All	6.4	NA	6.4	6.4
Medium/ Fine	2.5% or less	6.4	NA	12.8	6.4
Medium/ Fine	more than 2.5%	12.8	12.8	12.8	6.4

¹ Coarse soil types include sand, loamy sand, or sandy loam,

NA - not applicable

Application Timing

Preplant (up to 14 days before planting) and Preemergence Applications in No Tillage Corn

Engenia can be applied to emerged weeds before, during, or after planting a corn crop. When planting into a legume sod (e.g. alfalfa or clover), apply Engenia after 4 Inches of regrowth. For application rates, refer to Table 4.

Preemergence Applications in Conventional or Reduced Tillage Corn

Engenia may be applied after planting and before corn emergence; refer to **Table 4** for application rates. Preemergence application of **Engenia** does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended if the application is not followed by adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g. drags, harrows) that concentrates treated soil over seed furrow or seed damage could result.

Postemergence Applications (all tillage systems)

Apply early postemergence treatment between corn emergence and the 5-leaf stage or 8-inches tall, whichever comes first. Apply later applications when corn is 8-inches to 36-inches tall, or up to 15 days before tassel emergence, whichever comes first. Apply as a directed spray when corn leaves prevent proper spray coverage. Application rates vary by application timing; refer to **Table 4** for specific postemergence application rates.

Use with Other Herbicides

Engenia may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Armezon® herbicide
- Armezon® PRO herbicide
- Outlook® herbicide
- Prowl® H20 herbicide
- Sharpen® powered by Kixor® herbicide
- Verdict® powered by Kixor® herbicide
- Zidua® herbicide
- · atrazine
- glyphosate (e.g. Roundup® herbicide)

For approved tank mix options see

www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

NOTE: Refer to tank mix product labels to confirm the respective tank mix products are registered for use on specific corn types. Not all corn products are registered on popcorn and seed corn.

Corn and Popcorn Restrictions

- DO NOT apply more than 12.8 fl ozs/A (0.5 pound dicamba ae/A) in a single application of Engenia.
- DO NOT apply more than a maximum cumulative total of 1.5 pounds dicamba ae/A from all product sources per cropping season.
- Corn or popcorn forage and silage may be harvested, fed, or grazed when the crop has reached the ensilage (milk) stage or later in maturity.
- · Engenia is not registered for use on sweet corn.

²Use only preemergence applications in conventional and reduced tillage systems. ³Apply between corn emergence and the 5-leaf stage or 8-inches tall, whichever

comes first. Use crop oil concentrate only in dry conditions when corn is less than 5-inches tall and when applying **Engenia** alone or tank mixed with atrazine.

⁴Apply in corn that is 8-inches to 36-inches tall or up to 15 days before tassel emergence, whichever comes first.

Cotton

Before planting cotton, **Engenia® herbicide** may be used early preplant for burndown of actively growing broadleaf weeds; refer to **Table 1** for weeds controlled or suppressed.

Cotton gin byproducts may be fed to livestock.

Application Rates and Timings

Apply Engenia as a broadcast spray up to 6.4 fl ozs/A plus specified adjuvants; refer to Tank Mixing Information section for details. For best performance, apply Engenia when weeds are less than 4 inches in height and rosettes are less than 2-inches across.

Following application of **Engenia**, wait until an accumulation of 1 inch of rainfall or irrigation followed by an interval of 21 days per 6.4 fl ozs/A or less before planting cotton. This interval must be observed before planting cotton or severe crop injury may occur.

Missouri and Tennessee Only. Following application of Engenia, wait until an accumulation of 1 inch of rainfall or irrigation followed by an interval of 14 days per 6.4 fl ozs/A or less before planting cotton. This interval must be observed before planting cotton or severe crop injury may occur.

Use with Other Herbicides

Broad-spectrum postemergence control of grass weeds or additional broadleaf weeds requires another herbicide such as glyphosate. **Engenia** may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- . Sharpen® powered by Kixor® herbicide
- glyphosate (e.g. Roundup® herbicide)

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Cotton Restrictions

- DO NOT apply more than 6.4 fl ozs/A (0.25 pound dicamba ae/A) of Engenia per year (single growing season).
- DO NOT apply preplant to cotton west of Interstate 25.
- DO NOT make Engenia preplant application to cotton in geographic areas with average annual rainfall less than 25 inches.
- D0 NOT apply more than 2 pounds dicamba acid equivalent per acre for the combination of treatments if applying a spring preplant treatment following application of a fall preplant (postharvest) treatment.

Grass Grown for Seed

Engenia may be used to control annual and perennial broadleaf weeds after weed emergence. For best performance, apply Engenia when weeds are less than 4 inches in height and rosettes are less than 2-inches across. Apply Engenia at 6.4 to 12.8 fl ozs/A plus specified adjuvants to seedling grasses after the crop reaches 3-leaf to 5-leaf stage; see Tank Mixing Information section for details. Apply up to 12.8 fl ozs/A of Engenia on well-established perennial grasses. Use the higher rate of the listed rate range when treating more mature weeds or dense vegetative growth.

Use with Other Herbicides

Engenia may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Facet® L herbicide
- Prowl® H20 herbicide

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and orecautionary statements of each product in the tank mixture.

Grass Grown for Seed Restrictions

- DO NOT apply Engenia after grass seed crop begins to joint.
- DO NOT apply more than 12.8 fl ozs/A of Engenia (0.5 lb dicamba ae/A) per application or a cumulative total of 51.2 fl ozs/A of Engenia (2 lbs dicamba ae/A) per season.
- . Refer to Table 5 for grazing restrictions.

Pasture, Hay, Rangeland, and Farmstead (noncropland)

Engenia may be used on pasture, hay, rangeland, and farmstead including fencerows and nonirrigation ditchbanks for control or suppression of broadleaf weed and woody brush and vine species listed in Table 1. Engenia uses described in this section also refer to small grain grown for forage pasture use (rye, sorghum, sudangrass, or wheat). Grazing and harvest intervals are shown in Table 5.

Engenia may also be applied to noncropland areas to control broadleaf weeds in noxious weed control programs, districts, or areas including broadcast or spot treatment of roadsides, highways, utilities, railroad, and pipeline rights-of-way. Noxious weeds must be recognized at the state level, but programs may be administered at state. county, or other level.

Application Rates and Timings

Refer to **Table 2** for rate selection based on targeted weed or brush species. Some weed species will require a tank mix partner for adequate control. Retreatments may be applied as needed.

For approved tank mix options see www.engeniatankmix.com.

DO NOT apply more than 25.6 fl ozs/A of **Engenia** during a growing season.

DO NOT apply more than 12.8 fl ozs/A of **Engenia** during a growing season on small grain grown for pasture and newly seeded areas.

Established grass crops growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied. Bentgrass, buffalograss, carpetgrass, and St. Augustinegrass may show a response. Usually, colonial bentgrasses are more tolerant than creeping types. Velvetgrasses are most easily injured. Treatments will injure or kill alfalfa. Clovers. Jespedeza. wild winter peas, vetch, and other legumes.

Spray volume may range from 10 to 600 gallons per acre. The volume of spray applied depends on the height, density, and type of weeds or brush being treated and on the type of equipment used. **Engenia** may be applied as a spot treatment to individual clumps or small areas of undesirable vegetation using a handgun or similar type of application equipment. Apply diluted sprays to allow complete wetting (up to runoff) of foliage and stems.

Table 5. Grazing and Haying Restrictions for Lactating Dairy Animals after Engenia® herbicide Treatment

Engenia Rate	Days before	Days before
(fl ozs/A)	Grazing	Hay Harvest
Up to 12.8	7	

Cut-surface Treatment

Engenia may be applied as a cut-surface treatment for control of unwanted trees and prevention of sprouts of cut trees. Mix 1 part Engenia with 1 to 3 parts water to create the application solution. Use the lower dilution rate when treating difficult-to-control species.

- Frill or Girdle Treatment Using an axe to girdle tree trunk, make a continuous cut
 or a series of overlapping cuts. Spray or paint the cut surface with the solution.
- Stump Treatment Spray or paint freshly cut surface with the water mix. Thoroughly
 wet the area adiacent to the bark.

Dormant Multiflora Rose Applications

Engenia can be applied as an undiluted spot treatment directly to the soil or as a Lo-Oil basal bark treatment using an oil-in-water emulsion solution when plants are dormant.

Spot Treatment Applications

Spot treatment application of **Engenia** should be applied directly to the soil as close as possible to the root crown within 6 inches to 8 inches of the crown. On sloping terrain, apply **Engenia** to the uphill side of the crown. **DO NOT** apply when snow or water prevents applying **Engenia** directly to the soil. The use rate of **Engenia** depends on the canony diameter of the multiflora rose.

Example Engenia use rates:

- . 0.25 fl oz per 5-feet canopy diameter
- 1.0 fl oz per 10-feet canopy diameter
- . 2.35 fl ozs per 15-feet canopy diameter

Lo-Oil Basal Bark Treatment

For Lo-Oil basal bark treatments, apply **Engenia** to the basal stem region from the ground line to a height of 12 inches to 18 inches. Spray until runoff, with special emphasis on covering the root crown. For best results, apply **Engenia** when plants are dormant.

- **DO NOT** apply after bud break or when plants are showing signs of active growth.
- DO NOT apply when snow or water prevents applying Engenia to the ground line.

Lo-Oil Spray Solution Preparation

- Combine 1.5 gallons of water, 1 oz of emulsifier, 12.8 fl ozs of Engenia, and 2.5 pints of No. 2 diesel fuel.
- Adjust the amounts of materials used proportionately to the amount of final spray solution desired.

DO NOT apply more than 8 gallons/A of Lo-Oil spray solution mix per year.

Use with Other Herbicides

Broad-spectrum control of broadleaf and grass weeds requires another herbicide. Engenia may be applied sequentially with one or more of, but not limited to, the following herbicide products:

• Frequency® herbicide

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Pasture, Hay, Rangeland, and Farmstead (noncropland) Restrictions

- **DO NOT** apply more than a maximum cumulative total of 25.6 fl ozs/A of **Engenia** (1 lb dicamba ae/A) during a growing season.
- DO NOT apply more than a maximum cumulative total of 12.8 fl ozs/A of Engenia (0.5 lb dicamba ae/A) to small orain grown for pasture and to newly seeded areas.

Proso Millet

For use only within Colorado, Nebraska, North Dakota, South Dakota, and Wyoming

Apply **Engenia** and 2,4-D sequentially to provide control or suppression of annual broadleaf weeds: see **Table 1**

Apply 3.2 fl ozs/A of **Engenia** sequentially with 0.375 lb acid equivalent of 2,4-D per acre. Apply as a broadcast or spot treatment to emerged and actively growing weeds and when proso millet is in the 2-leaf to 5-leaf stage. Use directions for 2,4-D products vary with manufacturers; refer to a 2,4-D product with labeling consistent with the crop-stage timing for **Engenia**. Some types of proso millet may be affected adversely by a sequential application of **Engenia** and 2,4-D.

Proso Millet Restrictions

- DO NOT apply unless possible proso millet crop injury will be acceptable.
- DO NOT apply more than 3.2 fl ozs/A of Engenia (0.125 lb dicamba ae/A) per season in proso millet.
- . Refer to Table 5 for grazing restrictions.

Small Grain (barley, oats, triticale, and wheat)

Engenia may be applied before, during, or after planting small grain (barley, oats, triticale, and wheat). Refer to Application Rates and Timings for specific small grain crop uses. For best performance, apply Engenia when weeds are less than 4 inches in height and rosettes are less than 2-inches across. Applying Engenia to small grain during periods of rapid growth may result in crop leaning; this condition is temporary and will not reduce crop yield.

Restrictions for small grain areas grazed or cut for hay are indicated in **Table 5** in **Pasture, Hay, Rangeland, and Farmstead (noncropland)** section of this label.

Application Rates and Timings

Early Season Applications

Table 6. Early Season Application Rate and Growth Stage in Small Grain¹

	Fall-seeded		Spring-seeded	
Crop	Rate (fl ozs/A)	Growth Stage	Rate (fl ozs/A)	Growth Stage (up to)
Barley ^{2, 3}			1.6 to 2.4	4-leaf
Oats ³	1.6 to 3.2		1.6 to 3.2	5-leaf
Triticale	1.6 to 3.2	before joint	1.6 to 3.2	6-leaf
Wheat ⁴			1.6 to 3.2	6-leaf

¹ An adjuvant system should be used with all Engenia® herbicide applications; refer to Tank Mixing Information section for details. DO NOT use oil concentrates for postemeroence in-croo application.

Fall-seeded Wheat ONLY

Western Oregon. When applied in the spring, Engenia may be used at rates up to 4.8 fl ozs/A on fall-seeded wheat. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury.

Colorado, Kansas, New Mexico, Oklahoma, and Texas. For suppression of perennial weeds (such as field bindweed), up to 6.4 fl ozs/A of Engenia may be applied on fall-seeded wheat after wheat exceeds the 3-leaf stage. Application may be made in the fall following a frost but before a killing freeze. Engenia at 6.4 fl ozs/A may be sequentially applied with MCPA after wheat begins to filler. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury. For fall applications only, DO NOT apply Engenia if the potential for crop injury is unacceptable.

Preharvest Applications

To control broadleaf weeds that interfere with harvest, **Engenia** may be applied before harvest when barley or wheat is in the hard dough stage and the green color is gone from the nodes (joints) of the stem. Best results will be obtained if the application can be made when weeds are actively growing but before weeds canopy.

Engenia applications may be made to fall-planted and spring-planted barley and wheat at 6.4 fl ozs/A as a broadcast application or spot treatment. A preharvest interval (PHI) of 7 days is required before crop harvest.

Use with Other Herbicides

Broad-spectrum control of broadleaf and grass weeds requires another herbicide.

Engenia may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Bevond® herbicide (for Clearfield® wheat and Clearfield® Plus wheat only)
- Clearmax® herbicide (for Clearfield wheat and Clearfield Plus wheat only)
- . Sharpen® powered by Kixor® herbicide
- Zidua® herbicide
- 2 4-D amine
- MCPA
- sulfonylurea-based herbicide (e.g. Ally® herbicide, Express® herbicide, Finesse® herbicide)

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Small Grain Restrictions

- · Maximum use rate per application
- 3.2 fl.ozs/A: Oats and triticale
- 6.4 fl ozs/A: Spring-seeded barley, fall-seeded barley, wheat
- Maximum seasonal use rate
- 3.2 fl.ozs/A: Oats and triticale
- 8.8 fl ozs/A; Spring-seeded barley
- 9.6 fl ozs/A: Fall-seeded barley
- 12 8 fl.ozs/A: Wheat
- DO NOT apply Engenia preharvest to oats or triticale.
- . DO NOT use oil concentrate for postemergence in-crop application.
- DO NOT use preharvest-treated barley or wheat for seed unless a germination test with an acceptable result of 95% germination or more is performed on the seed.
- . DO NOT graze small grain (barley, oats, triticale, wheat) within 7 days after treatment.
- . DO NOT harvest for hav within 37 days after treatment.
- Barley and wheat may be harvested 7 days or more after a preharvest application.
- . DO NOT make preharvest application in California.

Sorahum

Engenia may be used early preplant, postemergence, and preharvest in sorghum to control many annual broadleaf weeds and to reduce competition from established perennial broadleaf weeds.

Application Rates and Timings

Preplant Applications

(at least 14 days before planting)

A preplant application of **Engenia** up to 6.4 fl ozs/A may be applied at least 14 days before sorohum planting.

Postemergence Applications

Up to 6.4 fl ozs/A of **Engenia** plus specified adjuvants (refer to **Tank Mixing Information** section for details) may be applied after sorghum is in the spike stage (all sorghum emerged) but before sorghum is 15-inches tall. For best performance, apply **Engenia** when sorghum crop is in the 3-leaf to 5-leaf stage and weeds are small (less than 3-inches tall). Use drop nozzles if sorghum is taller than 8 inches. Keep spray off sorghum leaves and out of the whorl to reduce the likelihood of crop injury and to innorove spray coverage of weed foliage.

Applying **Engenia** to sorghum during periods of rapid growth may result in temporary leaning of plants or rolling of leaves. These effects are usually outgrown within 10 to 14 days.

Preharvest Applications Oklahoma and Texas ONLY

Up to 6.4 fl ozs/A of **Engenia** may be applied for weed suppression any time after sorghum has reached the soft-dough stage. An agriculturally approved surfactant may be used to improve performance; see **Tank Mixing Information** section for details. Delay harvest until 30 days after a preharvest treatment.

²For spring barley varieties seeded during winter months or later, follow the rate and timing given for spring-seeded barley.

³ DO NOT tank mix Engenia with 2,4-D in oats or early season application on springseeded barley.

⁴Early developing wheat varieties must receive application between early tillering and the joint stage; ensure that the application occurs before the jointing stage.

Split Applications

Engenia® herbicide may be applied in split applications: preplant followed by postemergence or preharvest; or postemergence followed by preharvest. **DO NOT** apply more than 6.4 fl ozs/A of **Engenia** per application, or a maximum cumulative total of 12.8 fl ozs/A of **Engenia** per year.

Use with Other Herbicides

Engenia may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Basagran® 5L herbicide
- Facet® L herbicide
- Outlook® herbicide (Preplant only)
- . Sharpen® powered by Kixor® herbicide
- Verdict® powered by Kixor® herbicide
- atrazine
- glyphosate (e.g. Roundup® herbicide)

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and orecautionary statements of each product in the tank mixture.

Sorghum Restrictions

- D0 NOT graze or feed treated sorghum forage or silage before mature grain stage. If sorghum is grown for pasture or hay, refer to Pasture, Hay, Rangeland, and Farmstead (noncropland) section for specific grazing and feeding restrictions.
- DO NOT apply Engenia to sorghum grown for seed production.
- DO NOT apply more than 6.4 fl ozs/A of Engenia (0.25 lb dicamba ae/A) per application.
- DO NOT apply more than a maximum cumulative total of 12.8 fl ozs/A of Engenia (0.5 lb dicamba ae/A) per season.
- Oklahoma and Texas only Delay harvest until 30 days after a preharvest treatment.

Soybean

Engenia may be used preplant or preharvest in soybean to control many annual broadleaf weeds and to reduce competition from established biennial and perennial broadleaf weeds.

Application Rates and Timings

Preplant Applications

(at least 14 days before planting)

Apply **Engenia** as a broadcast spray at 3.2 to 12.8 fl ozs/A plus specified adjuvants; refer to **Tank Mixing Information** section for details.

Preplant Intervals. Following application of **Engenia** and a minimum accumulation of 1 inch of rainfall or overhead irrigation, preplant waiting intervals are required before planting soybeans or crop injury may occur:

- 14 days for 3.2 to 6.4 fl ozs/A
- 28 days for 6.5 to 12.8 fl ozs/A

Preharvest Applications

Apply **Engenia** as a broadcast spray or spot spray at 6.4 to 12.8 fl ozs/A plus specified adjuvants; refer to **Tank Mixing Information** section for details. Applications should be made to emerged and actively growing weeds after soybean pods have reached mature brown color and at least 75% leaf drop has occurred.

Treatments may not kill weeds that later develop from seed or underground parts, such as rhizomes or bulblets, after the effective residual period for **Engenia**. For seedling control, a follow-up program or other cultural practices should be instituted.

Use with Other Herbicides

Engenia may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Optill® powered by Kixor® herbicide
- Outlook
- Prowl® H20 herbicide
- Pursuit® herbicide
- Raptor® herbicide
- Sharpen
- Verdict
- Zidua® herbicide
- Zidua® PRO powered by Kixor® herbicide
- glyphosate (e.g. Roundup)

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Sovbean Restrictions

- DO NOT apply more than 12.8 fl ozs/A of Engenia (0.5 lb dicamba ae/A) in a spring application before soybean planting.
- DO NOT make Engenia preplant application to soybeans in geographic areas with average annual rainfall less than 25 inches.
- DO NOT apply more than 51.2 fl ozs/A of Engenia (2 lbs dicamba ae/A) per year (single growing season).
- DO NOT use preharvest-treated soybean for seed unless a germination test with an
 acceptable result of 95% germination or better is performed on the seed.
- . DO NOT harvest soybeans until 7 days after a preharvest application.
- DO NOT feed soybean fodder or hay following preharvest application of Engenia.
- . DO NOT make preharvest applications in California.

Sugarcane

Engenia may be used any time after weed emergence but before the close-in stage of sugarcane to control many annual and perennial broadleaf weeds; see Table 1 for weeds controlled or suppressed.

Apply 6.4 to 12.8 fl ozs/A of **Engenia** for control of annual weeds and 12.8 fl ozs/A for control or suppression of biennial and perennial weeds. Use the higher rate of the specified rate range when treating dense vegetative growth. Repeat treatment may be made as needed; however, **D0 NOT** apply more than the annual maximum cumulative total of 51.2 fl ozs/A of **Engenia** (2 lbs dicamba ae/A).

When possible, direct the spray beneath the sugarcane canopy to minimize the likelihood of crop injury. Using directed sprays will also help maximize the spray coverage of weed folianc.

Use with Other Herbicides

Engenia® herbicide may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Prowl® H20 herbicide
- atrazine

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Sugarcane Restrictions

- DO NOT apply more than 12.8 fl ozs/A of Engenia (1 lb dicamba ae/A) in a single application.
- DO NOT apply more than a maximum cumulative total of 51.2 fl ozs/A of Engenia (2 lbs dicamba ae/A) per growing season.
- DO NOT harvest sugarcane until 87 days after application.

Farmstead Turf (noncropland) and Sod Farms

Engenia may be used in farmstead turf (noncropland) and sod farms to control or suppress growth of many annual, biennial, and some perennial broadleaf weeds; see Table 1 for weeds controlled or suppressed. Engenia will also suppress woody brush and vine species; refer to Table 2 for application rates based on targeted weed or woody brush and vine species and growth stage. Some weed species will require tank mixes for optimum control.

Repeat treatment may be made as needed; however, **DO NOT** apply more than 25.6 fl ozs/A of **Engenia** (1 lb dicamba ae/A) per growing season.

Apply 30 to 200 gallons of diluted spray per acre (3 to 17 quarts of water per 1000 sq ft), depending on density or height of weeds treated and on type of equipment used.

To avoid injury to newly seeded grasses, delay application of **Engenia** until after the second mowing. Established grass crops growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied. Bentgrass, buffalograss, caretorass, and St. Augustinegrass may show a response.

Use with Other Herbicides

Engenia at 3.2 to 12.8 fl ozs/A may be applied sequentially with one or more of, but not limited to, the following herbicide products:

- Drive® XLR8 herbicide
- Pendulum® herbicide
- Tower® herbicide
- 2,4-D
- MCPAMCPP

For approved tank mix options see www.engeniatankmix.com.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Farmstead Turf and Sod Farm Restrictions

- . DO NOT use on residential sites.
- DO NOT apply more than 25.6 fl ozs/A of Engenia (1 lb dicamba ae/A) per growing season
- Areas where Roots of Sensitive Plants Extend
 - DO NOT apply more than 3.2 fl ozs/A of Engenia (0.125 lb dicamba ae/A) on coarse-texture soils (sand, loamy sand, or sandy loam).
 - DO NOT apply more than 6.4 fl ozs/A of Engenia on fine-texture soils.
 - DO NOT make repeat applications in these areas for 30 days and until previous applications of Engenia have been activated in the soil by rainfall or irrigation.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTARII ITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASE'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUICT.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

Armezon, Basagran, Beyond, Clearfield, Clearmax, Distinct, Drive, Engenia, Facet, Frequency, Kixor, Optill, Outlook, Pendulum, Prowl, Pursuit, Raptor, Sharpen, Tower, Varisto, Verdict, and Zidua are registered trademarks of BASF.

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Select Max is a registered trademark of Valent U.S.A. Corporation.

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Supersedes: NVA 2017-04-385-0200

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



NOTES



RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators.

This label supersedes any previously issued labeling, including previously issued supplemental labeling.

This EPA registration expires December 20, 2020. **D0 N0T** use or distribute this product after December 20, 2020.

Engenia[®]

Dicamba Group 4 Herbicide

Herbicide

For weed control in Dicamba-tolerant (DT) cotton'; Dicamba-tolerant (DT) soybean'; asparagus; conservation reserve programs (CRP); corn; cotton; fallow cropland; farm-stead turf (noncropland) and sod farms; grass grown for seed; pasture, hay, rangeland, and farmstead (noncropland); proso millet; small grain; sorghum; soybean; and sugarcane

*Only for use in states listed as US EPA approved in the **Dicamba-tolerant (DT) Crops** section of this label.

Active Ingredient*:

dicamba: N,N-Bis-(3-aminopropyl)methylamine salt of 3,6-dichloro-o-anisic acid	60.8%
Other Ingredients:	39.2%
Total:	100.0%

* Contains 48.38% dicamba (5 pounds acid equivalent per gallon or 600 grams per liter)

EPA Reg. No. 7969-345

CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

See attached booklet for complete First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions. In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

FIRST AID: If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice. HOTLINE NUMBER: Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed or inhaled. Avoid breathing vapor or spray mist. Remove and wash contaminated clothing before reuse. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing qum, using tobacco, or using the toilet.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Environmental Hazards

DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment washwater or rinsate. Apply this product only as directed on the label.

This chemical is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

See attached booklet for **Ground and Surface Water Protection** and **Endangered Species Protection**.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide Storage: Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Avoid cross-contamination with other pesticides. Engenia® herbicide freezes around 15° F and is stable under conditions of freezing and thawing. Product that has been frozen should be thawed and recirculated prior to use.

Pesticide Disposal: Wastes resulting from this product may be disposed of on-site or at an approved waste disposal facility. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures under Subtitle C of the Resource Conservation and Recovery Act. Improper disposal of excess pesticide. spray mix, or rinsate is a violation of federal law.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity > 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with posticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

BASF Corporation 26 Davis Drive Research Triangle Park NC 27709

81098036 NVA 2018-05-385-0612 Product of U.S.A.



Place Bulk Product Booklet/Label Here



We create chemistry

Net Contents:	110	gallons			
Refillable Container					
EPA Establishment Number is indicated by box checked:					
241-MO-001 Hannibal	X 683 Bea	323-TX-001 aumont			
241-PR-002 Puerto Rico	☐ 510 Spa	036-GA-001 arks			
33270-IA-001 Eldora	☐ 117 We	773-IA-001 bster City			
5905-IA-001 Des Moines)989-IA-001 mpton			

Produced for*: BASF Corporation, 26 Davis Drive

Research Triangle Park, NC 27709

*Does not apply if the EPA Est. No. begins with 241, 51036, 68323, or 7969.

81050325 NVA 2015-05-099-0342 © 2015 BASF Corporation