

# Banvel<sup>®</sup>

PEEL HERE  
TO OPEN ▶

## Herbicide

FOR WEED CONTROL IN CORN, SORGHUM, SMALL GRAINS,  
PASTURE, HAY, RANGELAND, FARMSTEAD (NON-CROPLAND), FALLOW,  
SUGARCANE, ASPARAGUS, TURF AND GRASS SEED CROPS.

### ACTIVE INGREDIENT

By Weight

Dimethylamine salt of dicamba (3,6-dichloro-o-anisic acid)*	49.4%
<b>OTHER INGREDIENTS</b>	<b>50.6%</b>
<b>TOTAL</b>	<b>100.0%</b>

\* This product contains 41.0% 3,6-dichloro-o-anisic acid (dicamba) or 4 pounds per gallon (480 g/L).

## KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

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 of booklet for complete Precautionary Statements and Directions For Use.**

Manufactured for:

**ARYSTA LIFESCIENCE NORTH AMERICA, LLC**

15401 Weston Parkway, Suite 150

Cary, North Carolina 27513

For Product Information: 1-866-761-9397

EPA Registration No. 66330-276

EPA Establishment No. 68323-TX-001

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Arysta LifeScience

Product of U.S.A.

**Net Contents: 2.5 gallons**

## FIRST AID

### IF IN EYES

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

### IF ON SKIN OR CLOTHING

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

### 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.

**EMERGENCY TELEPHONE NUMBERS:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL:** 1-866-303-6952

**FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Caution:** Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are butyl rubber and nitrile rubber. If you want more options, follow the instructions for **Category A** on an EPA chemical-resistance category selection chart.

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

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (except for pilots)
- Shoes plus socks

See engineering controls for additional requirements and exceptions. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft 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. Pilots must use cockpits in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)).

## USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands 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 intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters or rinseate.

Apply this product only as directed on label.

## PHYSICAL OR CHEMICAL HAZARDS

Keep away from strong oxidizers.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**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.

## 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 interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** 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 plants, soil, or water is:

- Coveralls worn over short-sleeve shirt and short pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant headgear for overhead exposure
- Protective eyewear

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to the uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170) The WPS applies when this product is used to produce agricultural plants on farms, in nurseries, in forests, or in greenhouses.

- **DO NOT** allow others to enter the treated areas until the spray has dried.

Before applying **BANVEL**, read all directions and precautions appearing on the container label and in this booklet. Failure to follow all directions and precautions may result in unsatisfactory weed control, crop injury, or illegal residues.

## PRODUCT INFORMATION

The following directions apply to all uses of **BANVEL**. Additional precautions and restrictions will be found in each specific use section.

**DO NOT** treat irrigation ditches or water used for crop irrigation or domestic uses.

**DO NOT** apply this product through any type of irrigation system.

## MIXING AND APPLICATION

UNLESS OTHERWISE SPECIFIED UNDER THE INDIVIDUAL USE HEADINGS OF THIS BOOKLET, THE FOLLOWING DIRECTIONS APPLY TO ALL CROP AND NON-CROP USES OF **BANVEL**. REFER TO INDIVIDUAL USE SECTIONS FOR ADDITIONAL PRECAUTIONS, RESTRICTIONS, APPLICATION RATES AND TIMINGS.

**BANVEL** is a water-soluble formulation that can be applied using water or sprayable fluid fertilizer as the carrier. If a fluid fertilizer is to be used, a compatibility test (See **COMPATIBILITY TEST**) should be made prior to tank mixing.

**DO NOT** apply more than 2 pt of **BANVEL** (1 lb dicamba) per acre for any single application.

**DO NOT** exceed more than 4 qt of **BANVEL** (2 lb dicamba) per acre per year.

Ground or aerial application equipment, which will give good spray coverage of weed foliage, should be used. **HOWEVER, DO NOT USE AERIAL APPLICATION EQUIPMENT IF SPRAY PARTICLES CAN BE CARRIED BY WIND INTO AREAS WHERE SENSITIVE CROPS OR PLANTS ARE GROWING OR WHEN TEMPERATURE INVERSIONS EXIST.**

Apply 3 to 50 gallons of diluted spray per treated acre when using ground application equipment or 1 to 10 gallons of diluted spray per treated acre (2 to 20 gallons of diluted spray per acre for preharvest uses) in a water-based carrier when using aerial application equipment. Use the higher level of the listed spray volumes when treating dense or tall vegetation. Use coarse sprays.

Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

To avoid uneven spray coverage, **BANVEL** should not be applied during periods of gusty wind or when wind is in excess of 15 mph.

Avoid disturbing (e.g., cultivating or mowing) treated areas for at least 7 days following application.

## BEST STEWARDSHIP PRACTICES

BANVEL provides effective broadleaf weed and brush control when properly applied. Best stewardship practices in all mixing, loading, and application operations not only maximize weed control, but also protect ground and surface waters and minimize off-target movement.

This chemical is known to leach through the soil into ground water 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 ground-water contamination.

### GROUND AND SURFACE WATERS PROTECTION

1) Point source contamination—To prevent point source contamination, **DO NOT** mix, load this pesticide product within 50 feet of wells (including abandoned wells and drainage wells), sink holes, 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 moved 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 wash waters, 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 wellhead setbacks and operational containment.

Care must be taken when using this product to prevent: a) back siphoning into wells, b) spills or c) improper disposal of excess pesticide, spray mixtures or rinsates. Check valves or anti-siphoning devices must be used on all mixing equipment.

2) 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 ground water contamination. Ground water contamination may occur in areas where soils are permeable or coarse and ground water is near the surface. **DO NOT** apply to soils classified as sand with less than 3% organic matter and where ground water depth is shallow (less than 8 feet in Arizona). To minimize the possibility of ground water contamination, carefully follow specified application rates as affected by soil type in the product information section of this label.

3) Movement by water erosion of treated soil—**DO NOT** apply or incorporate this product through any type of irrigation equipment nor by flood or furrow irrigation. Ensure treated areas have received at least one-half inch rainfall (or irrigation) before using tailwater for subsequent irrigation of other fields.

### SENSITIVE CROP PRECAUTIONS

BANVEL may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes, and other broadleaf plants when contacting their roots, stems or foliage. These plants are most sensitive to BANVEL during their development or growing stage. FOLLOW THE PRECAUTIONS LISTED BELOW WHEN USING BANVEL.

- **DO NOT** treat areas where either possible downward movement into the soil or surface washing may cause contact of BANVEL with the roots of desirable plants such as trees and shrubs.
- Avoid making applications when air currents may carry spray particles to areas where sensitive crops and plants are growing, or when temperature inversions exist. **DO NOT** spray near sensitive plants if wind is gusty or in excess of 5 mph and moving in the direction of adjacent sensitive crops. Leave an adequate buffer zone between area to be treated and sensitive plants. Coarse sprays are less likely to drift out of the target area than fine sprays.
- Use coarse sprays to avoid potential herbicide drift. Select nozzles, which are designed to produce minimal amounts of fine spray particles. Examples of nozzles designed to produce coarse sprays via ground application are Delavan Raindrops, Spraying Systems XR flat fans, or large capacity flood nozzles such as D10, TK10, or greater capacity tips. Keep the spray pressure at or below 20 psi and the spray volume at or above 20 GPA, unless otherwise required by the manufacturer of drift-reducing nozzles. Consult your spray nozzle supplier concerning the choice of drift-reducing nozzles.
- Agricultrally approved drift-reducing additives may be used.
- **DO NOT** apply BANVEL adjacent to sensitive crops when the temperature on the day of application is expected to exceed 85°F as drift is more likely to occur.
- **To avoid injury to desirable plants, equipment used** to apply BANVEL should be thoroughly cleaned (See PROCEDURE FOR CLEANING SPRAY EQUIPMENT) before reusing to apply any other chemicals.

All crop uses of BANVEL are intended for a normal growing interval between planting and harvest. No crop rotation restrictions exist if normal harvest of treated crop has occurred. If this interval is shortened, such as in cover crops that will be plowed under, do not follow up with the planting of a sensitive crop.

Crops growing under stress conditions such as drought, poor fertility, or foliar damage due to hail, wind or insects, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

Consult your local or state authorities for possible application restrictions and advice concerning these and other special local use situations.

Tank mix recommendations are for use only in states where the tank mix product and application site are registered.

## BAND TREATMENTS

BANVEL may be applied as a band treatment. Use the formulas below to determine the appropriate rate and volume per treated acre.

$$\begin{array}{l} \text{Band width in inches} \\ \text{Row width in inches} \end{array} \times \begin{array}{l} \text{Broadcast RATE} \\ \text{per treated acre} \end{array} = \begin{array}{l} \text{Band RATE} \\ \text{per treated acre} \end{array}$$
$$\begin{array}{l} \text{Band width in inches} \\ \text{Row width in inches} \end{array} \times \begin{array}{l} \text{Broadcast VOLUME} \\ \text{per treated acre} \end{array} = \begin{array}{l} \text{Band VOLUME} \\ \text{per treated acre} \end{array}$$

## COMPATIBILITY TEST

Before mixing in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities (see following table).

Amount of Herbicide to Add to One Pt of Spray Carrier

(Assuming Volume is 25 Gallons per Acre)

Herbicide Formulations	Rate Per Acre	Level Teaspoons
Dry	1 lb	1 1/2
Liquid	1 pt	1/2

If herbicide(s) do not ball-up or form flakes, sludge, gels, oily films or layers, or other precipitates, then the tested spray mix is compatible. Usually, incompatibility in any of the above-described forms will occur with 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recommended. Rerun the above COMPATIBILITY TEST with a suitable compatibility agent (1/4 teaspoon is equivalent to 2 pt per 100 gallons of fluid fertilizer).

## PROCEDURE FOR CLEANING SPRAY EQUIPMENT

The steps listed below are suggested for thorough cleaning of spray equipment following applications of BANVEL or tank mixes of BANVEL or tank mixes of BANVEL plus 2,4-D amine.

- 1) Hose down thoroughly the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Flush by operating sprayer until the system is purged of the rinse water.
- 2) Fill tank with water while adding 1 quart of household ammonia for every 25 gallons of water. Operate the pump to circulate the ammonia solution through the sprayer system for 15 to 20 minutes and discharge a small amount of the ammonia solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 3) Flush the solution out of the spray tank through the boom.
- 4) Remove the nozzles and screens and flush the system with two full tanks of water.

The steps listed below are suggested for thorough cleaning of spray equipment used to apply BANVEL as a tank mix with wettable powders (WP), emulsifiable concentrates (EC), or other types of water-dispersible formulations. BANVEL tank mixes with water-dispersible formulations require the use of a water/detergent rinse.

- 5) Complete step 1.
- 6) Fill tank with water while adding 2 lb of detergent for every 40 gallons of water. Operate the pump to circulate the detergent solution through the sprayer system for 5 to 10 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 7) Flush the detergent solution out of the spray tank through the boom.
- 8) Repeat step 1, and follow with steps 2, 3 and 4.

## WEED LIST

This is a general list of weeds which may be treated with BANVEL in accordance with this label as specified under the rates and timing sections of the Individual Use headings. Proper usage of this product will give control or growth suppression of many ANNUAL, BIENNIAL, and PERENNIAL broadleaf weeds, and many WOODY brush and vine species including:

**ANNUALS**

Amaranth, Spiny (Spiny Pigweed) Aster, Slender Bedstraw Beggarweed, Florida Broomweed, Common Buckwheat, Wild Buffalobur Burclover, California Burcucumber Buttercup, Roughseed Carpetweed Catchfly, Nightflowering Chamomile, Corn Chickweed, Common Clovers (Annual) Cockle, Corn Cockle, Cow Cocklebur, Common Croton, Tropic Croton, Woolly Daisy, English	Evening Primrose, Cutleaf Fleabane, Annual Goosefoot, Nettleleaf Henbit Jimsonweed Knotweed Kochia Ladysthumb Lambsquarters Common Lambsquarters (triazine resistant) Lettuce, Prickly Mallow, Common Mallow, Venice Mare's Tail (Horseweed) Mayweed Morningglory, Ivyleaf Morningglory, Tall Mustard, Tansy Mustard, Wild Mustard (Yellowtops) Nightshade, Black	Pennycress, Field (Fanweed, Frenchweed, Stinkweed) Pepperweed, Virginia (Peppergrass) Pigweed, Prostrate Pigweed, Redroot (Carelessweed) Pigweed, Rough Pigweed, Smooth Pigweed (triazine resistant) Pigweed, Tumble Poorjoe Puncturevine Purslane, Common Pusley, Florida Radish, Wild Ragweed, Common Ragweed, Giant (Buffaloweed) Ragweed, Lance-Leaf Rubberweed, Bitter (Bitterweed) Sesbania, Hemp Shepherdspurse	Sicklepod Sida, Prickly (Teaweed) Smartweed, Green Smartweed, Pennsylvania Sneezeweed, Bitter Sowthistle, Annual Sowthistle, Spiny Spikeweed, Common Spurge, Prostrate Spurry, Corn Starbur, Bristly Sumpweed, Rough Sunflower, Common (Wild) Sunflower, Volunteer Thistle, Russian Velvetleaf Waterhemp Waterprimrose, Winged Wormwood, Annual
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**BIENNIALS**

Burdock, Common Carrot, Wild (Queen Anne's Lace) Cockle, White Evening Primrose, Common	Geranium, Carolina Gromwell Knapweed, Diffuse Knapweed, Spotted Mallow, Dwarf	Plantain, Bracted Ragwort, Tansy Starthistle, Yellow Sweetclover Teasel	Thistle, Bull Thistle, Milk Thistle, Musk Thistle, Plumeless
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## PERENNIALS

*Alfalfa Artichoke, Jerusalem Aster, Spiny Aster, Whitehead Beadstraw, Smooth Bindweed, Field Bindweed, Hedge Blueweed, Texas *Bursage, (Bur Ragweed, Lakeweed, Povertyweed) Bursage, Woollyleaf (Lakeweed) Buttercup, Tall Campion, Bladder Chickweed, Field Chickweed (Mouseear, Canada) Chicory *Clover, Hop *Dandelion, Common	*Dock Broadleaf (Bitterdock) *Dock, Curly Dogbane, Hemp *Dogfennel (Cypressweed) Fern, Bracken Garlic, Wild Goldenrod, Canada Goldenrod, Missouri Goldenweed, Common Hawkweed Henbane, Black Horsenettle, Carolina Ironweed Knapweed, Black Knapweed, Russian Milkweed, Climbing Milkweed, Common Milkweed, Honeyvine	Milkweed, Western Whorled Nettle, Stinging Nightshade, Silverleaf (White Horsenettle) Onion, Wild *Plaintain, Broadleaf *Plantain, Buckhorn Pokeweed Ragweed, Western Redvine Sericia Lespedeza Smartweed, Swamp Snakeweed, Broom *Sorrel, Red (Sheep Sorrel) Sowthistle Sowthistle, Perennial Spurge, Leafy	Sundrop, Halfshrub (Evening Primrose) Thistle, Canada Toadflex, Dalmation Tropical Soda Apple Trumpetcreeper (Buckvine) Vetch Waterhemlock Waterprimrose, Creeping *Woodsorrel, Creeping Common Yellow Wormwood, Common Wormwood, Louisiana *Yankeeweed Yarrow, Common
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\*Noted perennials may be controlled using BANVEL at rates lower than those directed for other listed perennial weeds. (See application rates and timing sections in this label.)

## WOODY

Alder Ash Aspen Basswood Beech Birch *Blackberry *Blackgum *Cedar Cherry Chinquapin Cottonwood *Creosotebush Cucumbertree	*Dewberry *Dogwood Elm Grape *Hawthorn (Thornapple) Hemlock Hickory Honeylocust Honeysuckle Hornbeam Huckleberry Huisache Ivy, Poison Kudzu	Locust, Black Maple Mesquite Oak Oak, Poison Olive, Russian Persimmon, Eastern Pine *Plum, Sand (Wild Plum) Poplar Rabbitbrush *Redcedar, Eastern *Rose, McCartney *Rose, Multiflora	Sagebrush, Fringed Sassafras Serviceberry Spicebush Spruce Sumac *Sweetgum Sycomore Tarbush Willow Witchhazel *Yaupon *Yucca
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\*Growth suppression

## FIELD, SEED\*, POPCORN\* AND SILAGE CORN

Observe all precautions, mixing, and application instructions as well as the following:

\* **DO NOT** apply BANVEL to seed corn or popcorn without first verifying with your local seed corn company (supplier) the Dicamba selectivity on your inbred line or variety of popcorn. This precaution will help avoid potential injury of sensitive varieties.

BANVEL is not registered for use on sweet corn.

Direct contact of BANVEL with corn seed must be avoided. If corn seeds are less than 1 1/2 inches below the surface, delay application until corn has emerged.

Up to 2 applications of BANVEL may be made during a growing season. **DO NOT** exceed a total of 1 1/2 pt of BANVEL per treated acre per crop year. Allow two weeks or more between applications of BANVEL. See appropriate section for rate information. For combination options or sequential treatments, refer to appropriate section.

Applications of BANVEL to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3 to 7 days. Cultivation should be delayed until after corn is growing normally to avoid breakage.

Agriculturally approved surfactants or sprayable fertilizers (1/2 to 1 gallon per acre of 28%, 30% or 32% urea ammonium nitrate or 2.5 pounds per acre spray grade ammonium sulfate<sup>1</sup>) may be added to the spray mixture to improve postemergence weed control, particularly in dry growing conditions.

Do not use adjuvants containing penetrants such as petroleum-based oils after crop emergence or crop injury may result.

Corn may be harvested or grazed for feed once the crop has reached the ensilage (milk) stage or later in maturity.

Several synthetic pyrethroid insecticides are labeled for tank mix applications of dicamba. Refer to their label for specific recommendations.

#### **WEEDS CONTROLLED**

BANVEL will control many ANNUAL broadleaf weeds or give growth suppression of many PERENNIAL broadleaf weeds commonly found in corn. (Refer to the WEED LIST).

For best performance, make application when weeds have emerged and are actively growing.

Preemergence control of cocklebur, velvetleaf, and jimsonweed may be reduced if conditions such as low temperature or lack of soil moisture cause delayed or deep germination of weeds.

<sup>1</sup>Not for use in California.

#### **PREPLANT/PREEMERGENCE IN NO-TILLAGE CORN**

Applications of BANVEL may be made before, during, or after planting to emerged and actively growing broadleaf weeds. Apply BANVEL at 1 pt per treated acre on medium or fine textured soils containing 2% or greater organic matter. Use 1/2 pt per treated acre on coarse textured soils (sand, sandy loam, and loamy sand) or medium and fine textured soils with less than 2% organic matter.

When planting into a legume sod (e.g., alfalfa or clover), apply BANVEL after 4 to 6 inches of regrowth has occurred.

#### **PREEMERGENCE IN CONVENTIONAL OR REDUCED TILLAGE CORN**

BANVEL may be applied after planting and prior to corn emergence. Application at 1 pt per treated acre may be made to medium or fine textured soils, which contain 2% or greater organic matter. **DO NOT** apply to coarse textured soils (sand, sandy loam, and loamy sand) until after crop emergence (see Early Postemergence uses below).

Preemergence application of BANVEL does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended if application is not followed by adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g., drags, harrows) which concentrates treated soil over seed furrow.

#### **EARLY POSTEMERGENCE (ALL TILLAGE SYSTEMS)**

##### **(Spike through 8-inch tall corn)**

BANVEL at 1 pt per treated acre may be applied during the period from corn emergence through the five leaf stage or 8 inches tall, whichever comes first. Reduce the rate to 1/2 pt per treated acre if corn is growing on coarse textured soils (sand, sandy loam, and loamy sand). See LATE POSTEMERGENCE APPLICATIONS given below if the 6th true leaf is emerging from whorl or corn is greater than 8 inches tall.

#### **LATE POSTEMERGENCE (ALL TILLAGE SYSTEMS)**

##### **(8 to 36 inch tall corn)**

Application of BANVEL at 1/2 pt per treated acre may be made from 8 to 36 inch tall corn or 15 days before tassel emergence, whichever comes first. For best performance, make applications when weeds are less than 3 inches tall.

Make directed spray application when (1) corn leaves prevent proper spray coverage; (2) sensitive crops are growing nearby; (3) tank mixing with 2,4-D.

**DO NOT** apply BANVEL when soybeans are growing nearby if any of these conditions exist:

- corn is more than 24 inches tall
- soybeans are more than 10 inches tall
- soybeans have begun to bloom

#### **OVERLAY (SEQUENTIAL) TREATMENTS**

BANVEL may be applied to ground previously treated with one or more of the following herbicides registered for use in corn:

acetochlor (Surpass®, Harness® Plus) alachlor (Lasso®, Lasso MT®, Partner®) atrazine Bicep® Broadstrike® + Dual® Broadstrike® Plus Bronco® Bullet® butylate (Sutan® +/-Genate™)	Clarity® cyanazine (Bladex®) dimethenamid (Frontier®) EPTC (Eradicane®) Extrazine® II glyphosate (Roundup®) Guardsman® halosulfuron (Battalion®, Permit®) Lariat®	Marksman® metolachlor (Dual®) paraquat (Gramoxone®) pendimethalin (Prowl®) propachlor (Ramrod®) simazine (Princep®) Surpass® 100
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Apply BANVEL at 1/2 pt per treated acre to ground previously treated with full rates of Clarity or Marksman herbicides. Allow at least 2 weeks between applications.

READ AND FOLLOW LABEL DIRECTIONS FOR EACH OF THE ABOVE PRODUCTS.

### TANK MIX TREATMENTS FOR CORN

BANVEL may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

### RATES AND TIMINGS

BANVEL Plus	Preplant/ Preemergent (No Tillage Corn)	Pre-emergent (Conventional or Reduced Tillage Corn)	Early Post-Emergent (All Tillage Systems)	Late Post-Emergent (All Tillage Systems)	Additional Directions
Accent® (nicosulfuron)	—	—	1/2–1 oz ai/A	1/2–1 oz ai/A (To improve spray coverage of weeds and reduce risk of corn injury, use drop pipes to direct spray beneath corn leaves when corn is greater than 8 inches tall)	Application may be made to emerged weeds before corn is greater than 24 inches tall. Use non-ionic surfactant at .25% (v/v) with this tank mixture.
Atrazine	1 1/4–2 lb ai/A	1 1/4–2 lb ai/A	1 1/4–2 lb ai/A Crop oil concentrates may be used with this mixture if corn is 5 inches or less in height.	1 1/4–2 lb ai/A Do not apply if corn is greater than 12 inches tall.	Application may be made before grasses are 1 1/2 inches tall. Follow all state and Federal restrictions pertaining to atrazine applications.
Beacon® (primisulfuron)	—	—	0.31–0.62 oz ai/A	0.31–0.62 oz a.i/A (To improve spray coverage of weeds and reduce risk of corn injury, use drop pipes to direct spray beneath corn leaves when corn is greater than 8 inches tall.)	Application may be made to emerged weeds when corn is 4 to 24 inches tall. Use non-ionic surfactant at .25 (v/v) with this tank mixture.
Bladex® (cyanazine)	1 1/4–4.0 lb ai/A	1 1/4–4 lb ai/A	1/4–2 lb ai/A (Use the 90DF formulation only, after corn emergence.)	—	Application may be made before grasses are 1 1/2 inches tall, and before corn is beyond the 4 leaf stage.
Dual® (metolachlor)	1 1/2–3.0 lb ai/A	1 1/2–3 lb ai/A (Use only on fine or medium textured soils with 2.5 or greater organic matter.)	1 1/2–3 lb ai/A	—	Application may be made before grasses reach the 2 leaf stage and before corn is greater than 3 inches tall.

<b>BANVEL Plus</b>	<b>Preplant/ Preemergent (No Tillage Corn)</b>	<b>Pre-emergent (Conventional or Reduced Tillage Corn)</b>	<b>Early Post-Emergent (All Tillage Systems)</b>	<b>Late Post-Emergent (All Tillage Systems)</b>	<b>Additional Directions</b>
Frontier® (dimethenamid)	13–25 fl oz/A	13–25 fl oz/A (Use only on fine or medium textured soils with 2.5% or greater organic matter.)	13–25 fl oz/A	—	Application may be made up to 8 inch tall corn. This treatment must be combined with a herbicide that provides post-emergence control of grass weeds if they are greater than 1 inch tall at the time of application.
Frontier® 6.0 (dimethenamid)	16–32 fl oz/A	16–32 fl oz/A (use only on fine or medium textured soils with 2.5% or greater organic matter.)	—	—	Application may be made up to 8 inch tall corn. This treatment must be combined with a herbicide that provides postemergence control of grass weeds if they are greater than 1 inch tall at the time of application.
Gramoxone® (paraquat)	1/4–1 lb ai/A	1/4–1 lb ai/A	—	—	Application may be made to emerged weeds but prior to corn emergence.
Harness® Plus or Surpass® (acetochlor)	1 1/2–3 lb ai/A	1 1/2–3 lb ai/A (Use only on fine or medium textured soils with 2.5% or greater organic matter)	—	—	Application should be made prior to corn emergence.
Lasso® (alachlor)	1 1/2–4 lb ai/A	1 1/2–4 lb ai/A (Use only on fine textured soils with greater than 2.5% organic matter.)	1 1/2–4 lb ai/A	—	Application may be made before grasses reach the 2 leaf stage and before corn is greater than 3 inches tall. If microencapsulated forms of alachlor are used (Lasso MT Partner), applications must be made prior to grass emergence.
Princep® (simazine)	2.0–3.0 lb ai/A	2.0–3.0 lb ai/A	—	—	Application may be made prior to corn or weed emergence.
Prowl® (pendimethalin)	—	3/4–1 1/2 lb ai/A (Use only on fine or medium textured soils with 2 1/2% or greater organic matter.)	3/4–1 1/2 lb ai/A	—	Application may be made immediately after planting but prior to weed emergence. Corn should not be beyond the 2 leaf stage of growth.
Roundup® (glyphosate)	1.0–3.0 lb ai/A	1.0–3.0 lb ai/A	—	—	Application may be made to emerged weeds but prior to corn emergence.

BANVEL Plus	Preplant/ Preemergent (No Tillage Corn)	Pre-emergent (Conventional or Reduced Tillage Corn)	Early Post-Emergent (All Tillage Systems)	Late Post-Emergent (All Tillage Systems)	Additional Directions
Stinger® (clopyralid)	—	—	0.035–0.07 lb ai/A	0.035–0.07 lb ai/A	Applications may be made any time after corn emergence through 24 inch tall corn. Use drop nozzles to direct spray after corn exceeds the 8 inch stage. Apply when the majority of the thistle-plants have emerged and are at least 4 inches in height, but before bud stage. Use higher rates listed for stand reduction of larger thistle plants or heavier infestations. Lower rates listed may provide seasonal thistle suppression only.
Tough® 3.75EC (pyridate)	—	—	0.47 lb ai/A	0.47–0.94 lb ai/A	Applications may be made to emerged, actively growing weeds. Directed applications are recommended when corn is large enough to prevent proper spray coverage.
2,4-D	1/4–1/2 lb ai/A	1/4–1/2 lb ai/A	Not recommended	1/8 lb ai/A	Drop pipes are to be used when corn height is 8 inches or greater. Keeping the spray off the corn leaves and out of the whorl will reduce the likelihood of crop injury and improve spray coverage of weed foliage.

## SORGHUM (MILO)

Observe all precautions, including the reference to crops growing under stress.

Read and follow mixing and application instructions.

Applications of BANVEL 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.

**DO NOT** graze or feed treated sorghum forage or silage prior to mature grain stage. If sorghum is grown for pasture or hay, refer to the pasture use section of this label. **DO NOT** apply BANVEL to sorghum grown for seed production.

Make no more than one application per growing season.

### WEEDS CONTROLLED

BANVEL, when applied at the specified rate for sorghum, will control many actively growing ANNUAL broadleaf weeds and will reduce competition from established PERENNIAL broadleaf weeds as well as control their seedlings. (Refer to WEED LIST).

### RATES AND TIMINGS

BANVEL may be applied to emerged and actively growing weeds at least 15 days prior to planting. Postemergence application of BANVEL must be made after sorghum is in the spike stage (all sorghum emerged) but before sorghum is 15 inches tall. For best performance, make applications when sorghum is in the 3 to 5 leaf stage and weeds are small (less than 3 inches tall). Use drop pipes (drop nozzles) if sorghum is taller than 8 inches. Keeping the spray off the sorghum leaves and out of the whorl will reduce the likelihood of crop injury and improve spray coverage of weed foliage.

#### Broadcast rate per treated acre:

1/2 pt (1/4 lb ai)

## TANK MIX TREATMENTS

### BANVEL plus Atrazine:

For improved control of emerged, actively growing broadleaf weeds including triazine resistant species and added suppression of perennial broadleaf weeds, tank mix 1/2 pt BANVEL with 0.5 to 1.25 lb ai atrazine per treated acre. For control of grasses (less than 1.5 inches tall), tank mix 1/2 pt BANVEL with 2 lb ai atrazine per treated acre. For best performance and minimal crop injury, make application when sorghum is 3-8 inches tall and when broadleaf weeds are small (less than 6 inches tall). Application of atrazine must be made before sorghum is beyond 12 inches tall. The atrazine rate will depend upon soil texture and length of residual weed control desired. Follow all state and Federal restrictions pertaining to atrazine applications.

### BANVEL plus Buctril®:

For improved control of broadleaf weeds, tank mix 1/2 pt BANVEL with 1–1 1/2 pt Buctril® herbicide per treated acre. Make application at 4 leaf to 15-inch tall sorghum. Use drop nozzles to direct spray beneath sorghum leaves when sorghum is greater than 8 inches tall.

READ AND FOLLOW THE LABEL OF EACH TANK MIX PRODUCT USED FOR PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, APPLICATION RATES AND TIMINGS, AND OTHER RESTRICTIONS.

## OVERLAY (SEQUENTIAL) TREATMENTS

BANVEL may be applied to ground previously treated with one or more of the following herbicides:

Herbicide	Maximum Rate Per Treated Acre (lb ai)
alachlor (Lasso®) (Screen®-treated seed)	4.0
atrazine <sup>1</sup>	2.5
metolachlor (Dual®) (Concep®-treated seed)	2.5
propachlor (Ramrod®)	5.0

1. Maximum use rate for atrazine is determined by soil type, tillage practices used, surface residue, and state or local restrictions. Follow the more restrictive requirements when determining the maximum use rate for atrazine.

## PREHARVEST USES

FOR USE ONLY IN THE STATES OF TEXAS AND OKLAHOMA

BANVEL may be applied for weed suppression any time after the sorghum has reached the soft dough stage. An agriculturally approved surfactant may be used to improve performance. For aerial applications use at least 2 gallons of water-based carrier per treated acre.

Delay harvest until 30 days after treatment.

### Broadcast rate per treated acre:

1/2 pt (1/4 lb ai)

## SMALL GRAINS (WHEAT, BARLEY AND OATS) NOT UNDERSEED TO LEGUMES

### IMPORTANT

Observe all PRECAUTIONS. Read and follow CLEANING, MIXING AND APPLICATION instructions.

The Pre-Harvest Interval (PHI) for Barley, Oats and Wheat is 7 days. If small grains are used for pasture or hay, the following restrictions apply:

- Animals cannot be removed from treated area for slaughter prior to 30 days after last application.
- There is no waiting period between treatment and grazing for non-lactating dairy animals.
- Treated areas may not be grazed by lactating dairy animals before 7 days after treatment.
- **DO NOT** harvest hay from treated areas before 37 days after treatment.

**NOTE:** Observe all precautions and restrictions on the labels of products used in tank mix treatments.

## WEEDS CONTROLLED

BANVEL or combinations with listed tank mix partners will provide control or suppression of the annual broadleaf weeds listed below. For improved control of listed weeds, it is recommended that BANVEL be applied in a tank mix with other herbicides. Refer to specific crop for tank mix options.

Alkane <sup>1</sup> Bedstraw, Catchweed <sup>1</sup> Bindweed, Field <sup>2</sup> Buckwheat Tartary Buckwheat, Wild Carpetweed <sup>1</sup> Chamomile, Corn Chervil, Bur Chickweed, Common <sup>1</sup> Cockle, Corn Cockle, Cow Cocklebur, Common Cornflower (Bachelorbutton) <sup>1</sup> Dandelion, Common <sup>2</sup> Dock, Curly <sup>2</sup> Dragonhead, American <sup>1</sup>	Evening Primrose, Cutleaf <sup>1</sup> Falseflax Smallseeded <sup>1</sup> Fiddleneck, (Tarweed) <sup>1</sup> Flixweed <sup>1</sup> Fumitory <sup>1</sup> Gromwell, Corn <sup>1</sup> Groundsel, Common <sup>1</sup> Hempnettle <sup>1</sup> Henbit Jacobs Ladder <sup>1</sup> Knawel (German Moss) Knotweed, Prostrate Kochia Ladysthumb Lambsquarters, Common Lettuce, Miners <sup>1</sup>	Lettuce, Prickly Mallow, Common Mayweed, Chamomile (Dogfennel) <sup>1</sup> Mustard, Blue (Purple) Mustard, Tansy Mustard Treacle <sup>1</sup> Mustard, Tumble (Jim Hill) <sup>1</sup> Mustard, Wild <sup>1</sup> Nightshade, Black Nightshade, Cutleaf <sup>1</sup> Nightshade Silverleaf <sup>2</sup> (White Horsenettle)	Pennycress, Field (Fanweed, Frenchweed, Stinkweed) Pepperweed, Peppergrass <sup>1</sup> Pigweed, Redroot (Carelessweed) Pigweed, Rough Pigweed, Tumble Pineappleweed <sup>1</sup> Plantain, Broadleaf <sup>2</sup> Poppy, Red Horned <sup>1</sup> Puncturevine <sup>1</sup> Purslane, Common <sup>1</sup> Radish, Wild <sup>1</sup> Ragweed, Common <sup>1</sup> Ragweed, Giant (Buffaloweed) <sup>1</sup>	Rocket, London <sup>1</sup> Rocket, Yellow <sup>1</sup> Salsify (Goatsbeard) <sup>1</sup> Shepherdspurse <sup>1</sup> Smartweed, Green Smartweed, Pennsylvania Sorrel, Red (Sheep Sorrel) <sup>1</sup> Sowthistle, Annual Starthistle, Yellow <sup>1</sup> Sunflower, Common (Wild) Thistle, Canada <sup>2</sup> Thistle, Russian Velvetleaf Vetch <sup>1</sup> Yarrow, Common <sup>2</sup>
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1. These weeds will be controlled with BANVEL tank mixtures.

2. Refer to tank mix label for specific weeds controlled. BANVEL tank mixes will provide suppression of established broadleaf weeds and control their seedlings.

#### RATES AND TIMINGS

Application of BANVEL may be made before, during or after planting small grains. For best performance, make applications when weeds are in the 2-3 leaf stage and rosettes are less than 2 inches across. Application of BANVEL to small grains during periods of rapid growth may result in crop leaning. This condition is temporary and will not reduce crop yields.

Use BANVEL at 2 to 4 fl oz per treated acre in wheat, fall seeded barley, and oats, and at 2 to 3 fl oz per treated acre in spring seeded barley. Use the higher level of listed rate ranges when treating difficult to control weeds such as kochia, wild buckwheat, cow cockle, prostrate knotweed, Russian thistle, and prickly lettuce or when dense vegetative growth occurs.

BANVEL used in a tank mix with other herbicides offers the best spectrum of weed control and herbicide tolerant or resistant weed management. Refer to specific crop for BANVEL rate and application timing.

For applications prior to the emergence of weeds or when sulfonylurea resistant weeds are present or suspected, use a minimum of 3 fl oz per treated acre of BANVEL with a tank mix herbicide. Non-sulfonylurea herbicides such as 2,4-D or MCPA tank mixed with BANVEL will offer more consistent control of sulfonylurea resistant weeds.

When tank mixing with sulfonylurea herbicides, such as Ally®, Amber®, Express®, Finesse®, Glean® and Harmony® Extra, use an agriculturally approved surfactant of at least 80% active ingredient at the rate of 1-4 pt/100 gallons of spray or not more than 0.25-0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature and difficult to control weeds or dense vegetative growth.

### FALL AND SPRING SEEDED WHEAT

BANVEL MUST BE APPLIED TO FALL SEEDED WHEAT PRIOR TO THE JOINTING STAGE. APPLICATIONS TO SPRING SEEDED WHEAT MUST BE MADE BEFORE WHEAT REACHES THE 6 LEAF STAGE.

#### TANK MIX TREATMENTS

BANVEL may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic and other restrictions.

#### BROADCAST RATE PER TREATED ACRE:

1. Apply 2 to 4 fl oz BANVEL with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D Amine or Ester	2,4-D	4.0 lb/gal	8.0–12.0 fl oz (.25–.375 lb ai/A) <sup>2</sup>
MCPA Amine or Ester	MCPA	4.0 lb/gal	8.0–12.0 fl oz (.25–.375 lb ai/A) <sup>2</sup>
Ally®	metsulfuron-methyl	60% DF	1/10 oz
Amber®	triasulfuron	75% DF	0.28 oz

Product	Active Ingredient	Formulation	Amount of Product Per Acre
Express®	thifensulfuron + tribenuron-methyl	75% DF	1/6 oz
Finesse®	chlorsulfuron + metsulfuron-methyl	75% DF	1/3 oz
Glean®	chlorsulfuron	75% DF	1/6 oz
Harmony® Extra	thifensulfuron + tribenuron-methyl	75% DF	1/3 oz
Buctril®	bromoxynil <sup>3</sup>	2.0 lb/gal	1.0–1.5 pt
Bronate®	bromoxynil + MCPA	4.0 lb/gal	1.0–2.0 pt
Curtail®	clopyralid + 2,4-D	2.38 lb/gal	2.0–2 2/3 pt
Stinger®	clopyralid	3.0 lb/gal	1/4–1/3 pt
Karmex® <sup>4</sup>	diuron <sup>3</sup>	80% DF	1/2–1.5 lb
Sencor® <sup>4</sup>	metribuzin <sup>3</sup>	75% DF	1–10 oz
Dakota® <sup>5</sup>	fenoxaprop-ethyl + MCPA	3.1 lb/gal	16 fl oz
Tiller® <sup>5</sup>	fenoxaprop-ethyl + MCPA + 2,4-D	2.7 lb/gal	1.0–1.7 pt

1. Early developing wheat varieties such as TAM 107, MADISON, or WAKEFIELD must receive application between early tillering and the jointing stage. Care should be taken in staging these varieties to be certain that the application occurs prior to the jointing stage.
2. When using formulations other than 4 lb/gal use pounds active/acre listed.
3. Herbicides with the same active ingredient and/or different formulation may be used.
4. Tank mixtures for fall seeded wheat only.
5. Use 2 fl oz of BANVEL **only**. **DO NOT** use if wild oats is the target weed. **DO NOT** use BANVEL as a tank mix treatment with Dakota® or Tiller® on Durum wheat.

## SPECIAL USE TANK MIXES FOR SPRING AND FALL SEEDED WHEAT

(See Footnotes for Applicable Uses)

### BROADCAST RATE PER TREATED ACRE:

Apply 3–4<sup>1</sup> fl oz BANVEL with:

Product <sup>2</sup>	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D or MCPA Amine	2,4-D or MCPA	4.0 lb/gal	1.0–2.0 pt <sup>3</sup> (.5–1.0 lb ai/A) <sup>4</sup>
2,4-D or MCPA Ester	2,4-D or MCPA	4.0 lb/gal	1.0–1.5 pt <sup>3</sup> (.5–.75 lb ai/A) <sup>4</sup>
Ally®	metsulfuron-methyl	60% DF	1/20–1/10 oz
Amber®	triasulfuron	75% DF	0.14–0.28 oz
Express®	thifensulfuron + tribenuron-methyl	75% DF	1/12–1/4 oz
Finesse®	chlorsulfuron + metsulfuron-methyl	75% DF	1/6–1/3 oz
Glean®	chlorsulfuron	75% DF	1/6 oz
Harmony® Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6–1/3 oz
Ally® + 2,4-D Amine or Ester <sup>5</sup>	metsulfuron-methyl + 2,4-D	60% DF + 4 lb/gal	1/20–1/10 oz + 8 fl oz
Amber® + 2,4-D Amine or Ester <sup>5</sup>	triasulfuron + 2,4-D	75% DF + 4 lb/gal	0.14–0.28 oz + 8 fl oz

Product <sup>2</sup>	Active Ingredient	Formulation	Amount of Product Per Acre
Express <sup>®</sup> + 2,4-D Amine or Ester <sup>5</sup>	(thifensulfuron + tribenuron-methyl) + 2,4-D	75% DF + 4.0 lb/gal	1/12–1/6 oz + 8.0 fl oz
Finesse <sup>®</sup> + 2,4-D Amine or Ester <sup>5</sup>	(chlorsulfuron + metsulfuron-methyl) + 2,4-D	75% DF + 4.0 lb/gal	1/6–1/3 oz + 8.0 fl oz
Glean <sup>®</sup> + 2,4-D Amine or Ester <sup>5</sup>	chlorsulfuron + 2,4-D	75% DF + 4.0 lb/gal	1/6 oz + 8.0 fl oz
Harmony <sup>®</sup> Extra + 2,4-D Amine or Ester <sup>5</sup>	(thifensulfuron + tribenuron-methyl) + 2,4-D	75% DF + 4.0 lb/gal	1/6–1/3 oz + 8.0 fl oz
Roundup <sup>®</sup> RT <sup>6</sup>	glyphosate	3.0 lb/gal	12.0–16.0 fl oz

- BANVEL may be used at 6 fl oz on fall seeded wheat in Western Oregon as a spring application only. In CO, KS, NM, OK and TX up to 8 fl oz of BANVEL may be applied on fall seeded wheat after it exceeds the 3 leaf stage for suppression of perennial weeds, such as field bindweed. Applications may be made in the fall following a frost but before a killing freeze. BANVEL may be tank mixed with 2,4-D amine at 8 fl oz after wheat begins to tiller. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury. For fall applications only, do not use if the potential for crop injury is not acceptable.
- Do not use low rates of sulfonylurea herbicides, such as Ally, Amber, Express, Finesse, Glean, and Harmony Extra on more mature weeds and/or on dense vegetative growth.
- NOTE: For use on Fall Seeded Wheat Only. Do Not Use unless potential crop injury will be acceptable.
- When using formulations other than 4 lb/gal use pounds active/acre listed.
- Use for improved control of Russian thistle, flixweed, gromwell, mayweed and fiddleneck.
- BANVEL may be applied at 2 fl oz with Roundup<sup>®</sup> RT or any glyphosate formulation labeled for use as a preplant application to small grains with no waiting period prior to planting. Read and follow label directions of the tank mix product for adjuvant use recommendations.

### FALL SEEDED BARLEY

BANVEL MUST BE APPLIED TO FALL SEEDED BARLEY PRIOR TO THE JOINTING STAGE.

**NOTE:** For spring barley varieties that are seeded during the winter months or later, follow the rates and timings given for Spring Seeded Barley.

#### TANK MIX TREATMENTS

BANVEL may be tank mixed with one or more, but not limited to, the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

#### Broadcast rate per treated acre:

Apply 2-4 fl oz BANVEL with:

Product <sup>1</sup>	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D Amine or Ester	2,4-D	4.0 lb/gal	8.0 fl oz (.25 lb ai/A) <sup>2</sup>
MCPA Amine or Ester	MCPA	4.0 lb/gal	8.0–12.0 fl oz (.25–.375 lb ai/A)
Ally <sup>®</sup>	metsulfuron-methyl	60% DF	1/20–1/10 oz
Amber <sup>®</sup>	triasulfuron	75% DF	0.14–0.28 oz
Express <sup>®</sup>	thifensulfuron + tribenuron-methyl	75% DF	1/12–1/6 oz
Finesse <sup>®</sup>	chlorsulfuron + metsulfuron-methyl	75% DF	1/6–1/3 oz
Glean <sup>®</sup>	chlorsulfuron	75% DF	1/6 oz
Harmony <sup>®</sup> Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6–1/3 oz
Sencor <sup>®</sup>	metribuzin <sup>3</sup>	75% DF	1–10 oz
Buctril <sup>®</sup>	bromoxynil	2.0 lb/gal	1–1 1/2 pt

Product <sup>1</sup>	Active Ingredient	Formulation	Amount of Product Per Acre
Bronate®	bromoxynil + MCPA	4 lb/gal	3/4–1 1/2 pt

- DO NOT** use low rates of sulfonylureas (Ally®, Amber®, Express®, Finesse®, Glean®, and Harmony® Extra) on more mature weeds and/or on dense vegetative growth.
- When using formulations other than 4 lb/gal use pounds active/acre listed.
- Herbicides with the same active ingredient and/or different formulations may be used.

### SPRING SEEDED BARLEY

BANVEL MUST BE APPLIED BEFORE SPRING SEEDED BARLEY EXCEEDS THE 4 LEAF STAGE.

#### TANK MIX TREATMENTS

BANVEL may be mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

#### Broadcast rate per treated acre:

Apply 2.0-3.0 fl oz BANVEL with:

Product <sup>1</sup>	Active Ingredient	Formulation	Amount of Product Per Acre
MCPA Amine or Ester	MCPA	4.0 lb/gal	8.0–12.0 fl oz (.25–.375 lb ai/A) <sup>2</sup>
Ally®	metsulfuron-methyl	60% DF	1/20–1/10 oz
Amber®	triasulfuron	75% DF	0.14–0.28 oz
Express®	thifensulfuron + tribenuron-methyl	75% DF	1/12–1/6 oz
Finesse®	chlorsulfuron + metsulfuron-methyl	75% DF	1/6–1/3 oz
Glean®	chlorsulfuron	75% DF	1/6 oz
Harmony® Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6–1/3 oz
Sencor®	metribuzin <sup>3</sup>	75% DF	1.0–10.0 oz
Buctril®	bromoxynil	2.0 lb/gal	1.0–1 1/2 pt
Bronate®	bromoxynil + MCPA	4.0 lb/gal	3/4–1 1/2 pt

- DO NOT** use low rates of sulfonylureas (Ally®, Amber®, Express®, Finesse®, Glean®, and Harmony® Extra) on more mature weeds and/or on dense vegetative growth.
- When using formulations other than 4.0 lb/gal use pounds active/acre listed.
- Herbicides with the same active ingredient and/or different formulations may be used.

### FALL AND SPRING SEEDED OATS

BANVEL MUST BE APPLIED BEFORE SPRING SEEDED OATS EXCEED THE 5 LEAF STAGE. APPLICATIONS TO FALL SEEDED OATS MUST BE MADE PRIOR TO THE JOINTING STAGE.

#### TANK MIX TREATMENTS

BANVEL may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic and other restrictions.

#### Broadcast rate per treated acre:

Apply 2-4 fl oz BANVEL with:

Product	Active Ingredient	Formulation	Amount of Product Per A
MCPA Amine or Ester	MCPA	4 lb/gal	8–12 fl oz (.25–.375 lb ai/A) <sup>1</sup>

- When using formulations other than 4 lb/gal use pounds active/acre listed.



## FALL AND SPRING SEEDED TRITICALE EXCEPT CALIFORNIA

### EARLY SEASON APPLICATIONS

Apply 2-4 fl oz of BANVEL to triticale.

Early season applications to fall-seeded triticale must be made prior to jointing stage.

Early season applications to spring-seeded triticale must be made before triticale reaches the 6-leaf stage.

### TANK MIXES

For best performance, should be used in tank mix combination with bromoxynil.

## SUGARCANE

Observe all precautions. Read and follow mixing and application instructions.

Consult your local or state authorities for possible application restrictions, especially concerning aerial applications and advice concerning special local use situations.

The Pre-Harvest Interval (PHI) for Sugarcane is 87 days.

### WEEDS CONTROLLED

BANVEL, when applied at specified rates, will control many ANNUAL, BIENNIAL and PERENNIAL broadleaf weeds commonly found in sugarcane. (Refer to WEED LIST).

### RATES AND TIMINGS

Application of BANVEL may be made any time after weeds have emerged and are actively growing but before the close-in stage of sugarcane. Application rates and timing of BANVEL are given below. Use the higher level of listed rate ranges when treating dense vegetative growth.

Weed Stage & Type	Broadcast Rate Per Treated Acre	
	Product Amount	lb ai
Annual - Small, actively growing - Established weed growth	1/2–1.0 pt	1/4–1/2
	1.0–1 1/2 pt	1/2–3/4
Biennial	1.0–2.0 pt	1/2–1.0
Perennial	2.0 pt	1.0*

\* Application made over the top of actively growing sugarcane may result in crop injury.

When possible, direct the spray beneath the sugarcane canopy in order to minimize the likelihood of crop injury. The use of directed sprays will also aid in maximizing spray coverage of weed foliage.

Retreatments may be made as needed; however, **DO NOT** exceed a total of 4 pt (2 lb ai) of BANVEL per treated acre during a growing season.

## TANK MIX TREATMENTS

BANVEL may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, weeds controlled, geographic and other restrictions.

Herbicide	Rate Per Treated Acre (lb ai)
ametryn (Evik®)	2/5–8.0
asulam (Asulox®)	2.0–3 1/3
atrazine	2/5–4.0
2,4-D	1/2–3.0*

\* Application of BANVEL plus 2,4-D tank mix at the higher listed rate ranges may result in crop injury.

## PASTURE, HAY, RANGELAND, AND FARMSTEAD (Non-Cropland)

The pre-harvest interval (PHI) for grass forage is 0 days.

The pre-harvest interval (PHI) for grass hay is 7 days.

BANVEL is recommended for use for pasture, hay, rangeland, farmstead (non-cropland) (including fence rows and non-irrigation ditchbanks) for broadleaf weed and brush control. BANVEL may also be applied to non-cropland areas for the control of broadleaf weeds in Noxious Weed Control Programs, Districts or Areas including broadcast or spot treatment of roadsides and 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.

Observe all PRECAUTIONS. Read and follow MIXING AND APPLICATION instructions.

BANVEL uses described in this section also pertain to small grains (such as barley, forage sorghum, oats, rye, sudangrass or wheat) grown for pasture use only.

NEWLY SEEDDED AREAS, including small grains grown for pasture may be severely injured if rates are greater than 1 pt/A.

ESTABLISHED GRASS CROPS growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied. Bentgrass, carpetgrass, buffalograss and St. Augustine grass may be injured at rates exceeding 1 pt BANVEL (1/2 lb ai) per treated acre. Usually colonial bentgrasses are more tolerant than creeping types. Velvetgrasses are most easily injured. Treatments will kill or injure alfalfa, clovers, lespedeza, wild winter peas, vetch and other legumes.

#### TIMING RESTRICTIONS FOR LACTATING DAIRY ANIMALS FOLLOWING TREATMENT:

BANVEL Rate per Treated Acre	Days Before Grazing	Days Before Hay Harvest
Up to 1 pt (1/2 lb ai)	7 days	37 days
Up to 1 quart (1 lb ai)	21 days	51 days

NOTE: Observe all precautions and restrictions on labels of products used in tank mixtures.

#### MIXING AND APPLICATION

BANVEL can be applied using water, oil in water emulsions including invert systems, or sprayable fluid fertilizer as a carrier. A COMPATIBILITY TEST (see COMPATIBILITY TEST section) should be made prior to tank mixing.

To prepare oil in water emulsions, half-fill spray tank with water, then add appropriate amount of emulsifier. With continuous agitation, slowly add the herbicide and then the oil (such as diesel oil or fuel oil) or a premix of oil plus additional emulsifier to spray tank. Complete filling of spray tank with water. Maintain vigorous agitation during spray operation to prevent oil and water from forming separate layers.

BANVEL may be applied broadcast using either ground or aerial application equipment. When using ground equipment, apply 3 to 600 gallons of diluted spray per treated acre. Volume of spray applied will depend on the height, density, and type of weeds or brush being treated and on the type of equipment being used. When using aerial equipment apply 2 to 40 gallons of diluted spray per treated acre in a water-based carrier. BANVEL may be applied to individual clumps or small areas (SPOT TREATMENT) of undesirable vegetation using handgun or similar types of application equipment. Apply diluted sprays to allow complete wetting (up to run off) of foliage and stems.

Herbicide adjuvants or other spray additives (emulsifiers, surfactants, wetting agents, drift control agents, or penetrants) may be used for wetting, penetration, or drift control. Spray additives must be agriculturally approved when used in pasture applications. If spray additives are used, read and follow all use directions and precautions on product label.

#### WEEDS CONTROLLED

BANVEL, when applied at specified rates, will give control many ANNUAL, BIENNIAL, and PERENNIAL broadleaf weeds, and many WOODY brush and vine species commonly found in pasture, hay, rangeland, and general farmstead (non-cropland) areas. (Refer to WEED LIST). Noted (\*) PERENNIAL weeds may be controlled with lower rates of either BANVEL or BANVEL plus 2,4-D. See the following RATES AND TIMINGS section.

#### RATES AND TIMINGS

Application rates and timing of BANVEL are given below. Use the higher level of listed rate ranges when treating dense or tall vegetative growth.

Weed Stage & Type	Broadcast Rate Per Treated Acre	
	Product Amount	lb ai
<b>Annual</b> Small, actively growing Established weed growth	1/2–1.0 pt 1.0–1 1/2 pt	1/4–1/2 1/2–3/4
<b>Biennial<sup>1</sup></b> Rosette diameter Less than 3 inches 3 inches or more Bolting	1/2–1.0 pt 1.0–2.0 pt 2.0 pt	1/4–1/2 1/2–1.0 1.0

Weed Stage & Type	Broadcast Rate Per Treated Acre	
	Product Amount	lb ai
Perennial Suppression or top growth control Perennials	1/2–1.0 pt 2.0 pt	1/2–1.0 1.0
Woody Brush & Vines Top growth Suppression Top growth control <sup>2</sup>	1.0–2.0 pt 2.0 pt	1/2–1.0 1.0*

- For best performance, make application when BIENNIAL WEEDS are in the rosette stage.
- Species noted in WEED LIST section will require tank mixtures for adequate control.
  - DO NOT** broadcast apply more than 1 lb ai/A.

Retreatments may be made as needed; however, **DO NOT** exceed a total of 4 pt (2 lb ai) of BANVEL per treated acre during a growing season.

#### TANK MIX TREATMENTS

READ AND FOLLOW THE LABEL OF EACH TANK MIX PRODUCT USED FOR PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, APPLICATION RATES AND OTHER RESTRICTIONS.

BANVEL may be tank mixed with one or more of the following herbicides for control of grasses, additional broadleaf weeds, and woody brush and vines.

Herbicide	Rate Per Treated Acre (lb ai)
Pasture, hay, rangeland, and general farmstead (non-cropland) use: glyphosate (Roundup <sup>®</sup> ) metsulfuron methyl (Ally <sup>®</sup> ) paraquat (Gramoxone <sup>®</sup> ) picloram (Tordon <sup>®</sup> ) triclopyr (Garlon <sup>®</sup> ) 2,4-D	3/4–3 3/4 0.0038–0.011 1/2–1.0 1/8–3.0 3/4–9.0 1/4–6.0

Due to the variations that may occur in formulated products and specific use ingredients (e.g. water supplies), a COMPATIBILITY TEST is recommended prior to actual tank mixing.

### CUT SURFACE TREE TREATMENTS

BANVEL may be applied as a cut surface treatment for control of unwanted trees and prevention of sprouts of cut trees. A mix of 1 part BANVEL with 1 to 3 parts water should be used in application. Use the lower dilution when treating difficult-to-control species.

FRILL OR GIRDLE TREATMENTS: Make a continuous cut or a series of overlapping cuts using an axe to girdle tree trunk. Spray or paint cut surface with the BANVEL/water mix.

STUMP TREATMENTS: Spray or paint freshly cut surface with the water mix. The area adjacent to the bark should be thoroughly wet.

Note: For more rapid foliar effects, 2,4-D may be added to the BANVEL/water mix.

### DORMANT APPLICATIONS FOR CONTROL OF MULTIFLORA ROSE

BANVEL can be applied when plants are dormant as an undiluted SPOT-CONCENTRATE directly to the soil or as a LO-OIL BASAL BARK treatment using an oil-water emulsion solution.

SPOT-CONCENTRATE applications of BANVEL should be applied directly to the soil as close as possible to the root crown but within 6-8 inches of the crown. On sloping terrain, application should be made to the uphill side of the crown. Do not make application when snow or water prevents applying BANVEL directly to the soil. The use rate of BANVEL is dependent on the canopy diameter of the multiflora rose. Examples: Use BANVEL at 1/4, 1 or 2 1/4 fl oz of product respectively, for 5, 10 or 15 feet canopy diameters. **DO NOT** exceed a total of 4 pt BANVEL per acre per year.

LO-OIL BASAL BARK applications of BANVEL should be applied to the basal stem region from the ground line up to a height of 12 to 18 inches. Spray until runoff, with special emphasis on covering the root crown. For best results, make application when plants are dormant. **DO NOT** make application after bud break or when plants are showing signs of active growth. Do not make application when snow or water prevents applying BANVEL to the ground line. Refer to Mixing and Applications above in this section for method of preparing oil-in-water emulsion. Example for making approximately 2 gallons of a LO-OIL spray solution mixture: combine 1 1/2 gallons water plus 1 ounce emulsifier plus 1 pt BANVEL plus 2 1/2 pt of No. 2 diesel fuel. Adjust amounts of materials used proportionately to the amount of final spray solution desired. **DO NOT** exceed 8 gallons of spray solution mix applied per acre per year.

## CONSERVATION RESERVE PROGRAM (CRP) ACRES

BANVEL is recommended for use on both newly seeded and established grasses grown in Conservation Reserve or Federal Set-Aside Programs. Observe all precautions, mixing and application directions.

BANVEL treatment will injure or may kill alfalfa, clovers, lespedeza, wild winter peas, vetch, and other legumes.

Agriculturally approved surfactants may be added to the spray mixture to improve postemergence weed control, particularly in dry growing conditions.

**DO NOT** use adjuvants containing penetrants such as petroleum based oils after grass emergence on newly seeded grasses.

### NEWLY SEEDED AREAS

BANVEL may be applied either preplant or postemergence to newly seeded grasses or small grains such as barley, oats, rye, sudangrass, wheat, or other grain species grown as a cover crop. Postemergence applications may be made after seedling grasses exceed the 3-leaf stage. Rates of BANVEL greater than 1 pt per treated acre may severely injure newly seeded grasses. Preplant applications—injury to new seedlings may occur if intervals between application and grass planting is less than 45 days per pt of BANVEL per treated acre West of the Mississippi River or 20 days per pt East of the Mississippi River.

### ESTABLISHED GRASS STANDS

Established grass stands are perennial grasses planted one or more seasons prior to treatment. Certain species: bentgrass, carpetgrass, smooth brome, buffalograss or St. Augustine grass may be injured when treated with BANVEL at rates exceeding 1 pt per treated acre.

### WEEDS CONTROLLED

BANVEL, when applied at specified rates, will control many annual and biennial weeds and provide control or suppression of many perennial weeds. (Refer to WEED LIST).

### RATES AND TIMINGS

Application rates and timing of BANVEL treatment are given below. Use the higher rate of the rate range when vegetation is either dense or tall, or when weeds are growing under stressed conditions such as drought or cool temperature.

Weed Stage & Type*	Broadcast Rate Per Treated Acre	
	Amount of Formulated BANVEL (pt)	Equivalent lb ai
<b>Annuals</b> Small, actively growing Established weed growth	1/4–1.0 1.0	1/8–1/2 1/2
<b>Biennials**</b> Rosette diameter a) Less than 3 inches b) 3 inches or greater c) Bolting biennial	1/2–1.0 1.0–2.0 2.0–3.0	1/4–1/2 1/2–1.0 1.0–1 1/2
<b>Perennials**</b> Suppression/Control	2.0–4.0	1.0–2.0

\* For best results, treat Biennial weeds with BANVEL when they are in the rosette stage of growth. Retreatments may be made as needed; however, **DO NOT EXCEED A TOTAL OF 2 QUARTS (2 lb ai)** of BANVEL per treated acre during a growing season.

\*\* Biennial and Perennial weeds will require follow-up (sequential) treatments for seedling control and escapes.

### TANK MIX TREATMENTS

To control grasses and additional broadleaf weeds, BANVEL may be tank mixed with other herbicides registered for use in Conservation Reserve Programs such as 2,4-D, glyphosate (Roundup), paraquat (Gramoxone), metsulfuron (Ally) and others.

**READ AND FOLLOW THE LABEL OF EACH TANK MIX PRODUCT USED FOR PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, APPLICATION RATES, AND OTHER RESTRICTIONS.**

## ASPARAGUS

FOR USE ONLY IN THE STATES OF CALIFORNIA, OREGON, AND WASHINGTON

Observe all PRECAUTIONS. Read and follow mixing and application instructions.

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

**DO NOT** harvest prior to 24 hours after treatment. **DO NOT** use in the Coachella Valley of California.

Multiple applications may be made per growing season. **DO NOT** exceed a total of 1 pt of BANVEL per treated acre per crop year.

### RATES AND TIMINGS

Apply BANVEL to emerged and actively growing weeds in 40 to 60 gallons of diluted spray per treated acre immediately after cutting the field, but at least 24 hours before the next cutting.

Weeds	Rate Per Treated Acre
Mustard, Black Pigweed, Redroot (Carelessweed) Sowthistle, Annual * Thistle, Canada Thistle, Russian	1/2–1.0 pt (1/4–1/2 lb ai)
* Bindweed, Field Chickweed, Common Goosefoot, Nettleleaf Radish, Wild Thistle, Milk	1.0 pt (1/2 lb ai)

BANVEL may be applied in a tank mixture with either 2,4-D or Roundup herbicide for improved control of noted (\*) weeds. **READ AND FOLLOW 2,4-D OR Roundup Herbicide PRODUCT LABELING FOR PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, APPLICATION RATES AND TIMINGS, AND OTHER RESTRICTIONS.**

## TURF AND LAWNS

FOR USE IN FARMSTEAD (NON-CROPLAND) AND SOD FARMS

### IMPORTANT

Observe all precautions. Read and follow mixing and application instructions.

To avoid injury to newly seeded grasses, application of BANVEL should be delayed until after the second mowing. Furthermore, application rates in excess of 1 pt (1/2 lb ai) per treated acre may cause noticeable stunting or discoloration of sensitive grass species such as bentgrass, carpetgrass, buffalograss, and St. Augustine grass.

**In areas where roots of sensitive plants extend, do not** apply in excess of 1/4 pt (1/8 lb ai) of BANVEL per treated acre on coarse textured (sandy-type) soils, or in excess of 1/2 pt (1/4 lb ai) per treated acre on fine textured (clayey-type) soils. **DO NOT** make repeat applications in these areas for 30 days and until previous applications of BANVEL have been activated in the soil by rain or irrigation.

### WEEDS CONTROLLED

BANVEL, when applied at specified rates, will give control of many ANNUAL, BIENNIAL, and noted (\*) PERENNIAL broadleaf weeds commonly found in turf. BANVEL will also give growth suppression of many other listed PERENNIAL broadleaf weeds and WOODY brush and vine species. (Refer to WEED LIST).

### MIXING AND APPLICATION

Apply 30 to 200 gallons of diluted spray per treated acre (3 qts. to 4 1/4 gals. per 1,000 sq. ft.), depending on density or height of weeds treated and on the type of equipment used.

### RATES AND TIMINGS

Use the higher level of listed rate ranges when treating dense vegetative growth.

Weed Stage & Type	BANVEL Herbicide		
	pt per treated acre	lb ai per treated acre	teaspoons per 1000 sq. ft.
<b>Annual</b>			
Small, actively growing	1/2–1.0	1/4–1/2	1.0–2 1/4
Established weed growth	1.0–1 1/2	1/2–3/4	2 1/4–3 1/4

Weed Stage & Type	BANVEL Herbicide		
	pt per treated acre	lb ai per treated acre	teaspoons per 1000 sq. ft.
<b>Biennial Rosette diameter</b> Less than 3 inches 3 inches or more	1/2–1.0 1.0–2.0	1/4–1/2 1/2–1.0	1.0–2 1/4 2 1/4–4 1/2
<b>Perennials and Woody</b> Brush and Vines	1.0–2.0	1/2–1.0	2 1/4–4 1/2

For best performance, apply when weeds are emerged and actively growing.

Retreatments may be made as needed; however, do not exceed a total of 4 pt (2 lb ai) BANVEL per treated acre during a growing season.

#### TANK MIX TREATMENTS

READ AND FOLLOW THE LABEL OF EACH TANK MIX PRODUCT USED FOR PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, APPLICATION RATES AND TIMINGS AND OTHER RESTRICTIONS.

Tank mix treatments of BANVEL may be made with 2,4-D, MCPA, MCPP, or bromoxynil for control of additional weeds listed on the tank mix product label.

Apply 1/5 to 1/2 pt (1/10 to 1/4 lb ai) of BANVEL per treated acre with 1/2 to 1 1/2 lb acid equivalent of 2,4-D, MCPA, or MCPP, or with 3/8 to 1/2 lb ai of bromoxynil. Use the higher level of the listed rate ranges when treating established weeds. Repeat treatments may be made as needed; however, **DO NOT** exceed 4 pt (2 lb ai) of BANVEL per treated acre per year.

### GRASS SEED CROPS

GRASSES GROWN FOR SEED SUCH AS BERMUDA GRASS, BLUEGRASS, FESCUE AND RYEGRASS

#### IMPORTANT

Observe all precautions. Read and follow mixing and application instructions.

**The Pre-Harvest Interval (PHI) for grass forage is 0 days.**

**The Pre-Harvest Interval (PHI) for grass hay is 7 days.**

Refer to the PASTURE, HAY, RANGELAND, AND FARMSTEAD (NONCROPLAND AREAS) section for possible grazing and feeding restrictions.

**DO NOT** use on bentgrass unless possible crop injury can be tolerated.

#### WEEDS CONTROLLED

BANVEL will provide control or suppression of annual broadleaf weeds listed below. For improved control of listed weeds plus additional weeds, it is recommended that BANVEL be applied in a tank mix with other herbicides.

Alfalfa <sup>1</sup> Bedstraw, Catchweed Bindweed, Field Buttercup, Corn Buttercup, Creeping Buttercup, Western Field	Catchfly, Nightflowering Chamomile, Corn Chickweed, Common Chickweed, Mouseear Clover Cockle, White	Dock, Broadleaf Dock, Curly Hemlock, Poison Knapweed, Russia <sup>1</sup> Knawel Kochia	Knotweed, Prostrate Ladythumb Lambsquarters, Common Lettuce, Prickly Mayweed (Dogfennel) Ragwort, Tansy	Sorrel, Red (Sheep Sorrel) Sowthistle, Annual Starwort, Little Thistle, Canad <sup>1</sup>
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1. Top growth control only.

#### RATES AND TIMINGS

Apply 1/2 to 1 pt of BANVEL per treated acre on SEEDLING GRASS after the crop reaches the 3-5 leaf stage. Apply up to 2 pt of BANVEL on well-established Perennial grass. **DO NOT APPLY AFTER THE GRASS SEED CROP BEGINS TO JOINT.** For best performance, make applications when weeds are in the 2-4 leaf stage and rosettes are less than 2 inches across. Use the higher level of listed rate ranges when treating more mature weeds or dense vegetative growth.

#### TANK MIX TREATMENTS

For control of grasses or additional broadleaf weeds, BANVEL may be tank mixed with all broadleaf herbicides registered for use in Grass Seed Production. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

#### BROADCAST RATE PER TREATED ACRE:

Apply 1/2 to 2 pt BANVEL with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D Amine or Ester	2,4-D	4 lb/gal	1–4 pt (.5–2.0 lb ai/A) <sup>1</sup>
MCPA Amine	MCPA	4 lb/gal	1–2 pt (.5–1.0 lb ai/A) <sup>1</sup>
Buctril®	bromoxynil <sup>2</sup>	2 lb/gal	1–2 pt
Curtail®	clopyralid + 2,4-D	2.38 lb/gal	1 3/4–4 pt
Karmex®	diuron <sup>2</sup>	80% DF	2–4 lb
Stinger®	clopyralid	3 lb/gal	1/4–1 pt

1. When using formulations other than 4 lb/gal use pounds active/acre listed.
2. Herbicides with the same common name and/or different formulations may be used.

#### ANNUAL GRASS CONTROL

For suppression of ANNUAL GRASS WEEDS such as:

Brome, Downy (Cheatgrass)  
 Brome, Ripgut  
 Fescue, Rattail  
 Windgrass

Apply up to 4 pt of BANVEL per treated acre in the fall or late summer after harvest and burning of established grass seed crops. Applications should be made immediately following first irrigation when the soil is moist and before weeds have more than 2 leaves.

### PREPLANT DIRECTIONS (POST HARVEST/FALLOW/CROP STUBBLE/SET-A-SIDE) FOR BROADLEAF WEED CONTROL BEFORE WHEAT, CORN, SORGHUM, SOYBEANS IMPORTANT

Observe all precautions. Read and follow mixing and application instructions.

#### WEEDS CONTROLLED

BANVEL may be applied alone or in tank mix combinations with other herbicides registered for this use.

BANVEL can be applied either POST HARVEST in the fall, spring or summer during the FALLOW period or to CROP STUBBLE/SET-A-SIDE acres. BANVEL, when applied at the specified rates, will control many ANNUAL broadleaf weeds; see the WEEDS CONTROLLED section under small grains. In addition, BANVEL will control or suppress the following BIENNIAL and PERENNIAL broadleaf weeds:

Alfalfa <sup>1</sup> Artichoke, Jerusalem Bindweed, Field Bindweed, Hedge Blueweed, Texas	Bursage (Bur Ragweed) (Povertyweed) (Lakeweed) <sup>1</sup> Dandelion, Common <sup>1</sup> Dock, Curly <sup>1</sup>	Dogbane, Hemp Garlic, Wild <sup>2</sup> Horsenettle, Carolina Knapweed, Diffuse Knapweed, Spotted Nightshade, Silverleaf	Redvine Smartweed, Swamp Sowthistle, perennial <sup>1</sup> Spurge, Leafy Thistle, Bull Thistle, Canada <sup>2</sup>	Thistle, Milk Thistle, Musk Thistle, Plumeless Thistle, Scotch Trumpet creeper (Buckvine)
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1. Perennials may be controlled using BANVEL at rates lower than those recommended for other listed perennial weeds. (See RATES AND TIMINGS under this heading.)
2. See the SPECIAL TANK MIX TREATMENTS section under this heading for specific control programs for these weeds.

#### RATES AND TIMINGS

Apply BANVEL as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (post harvest) and before a killing frost or in the fallow cropland or crop stubble the following spring or summer. Agriculturally approved spray additives, such as surfactants or oils, may be used to enhance spray coverage and the herbicide's penetration of weed foliage. See CROPPING RESTRICTIONS for specified interval between application and planting to prevent crop injury.

For best performance, make application when ANNUAL weeds are less than 6 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. Most effective control of upright perennial broadleaf weeds, such as Canada thistle and Jerusalem artichoke, occurs if application is made when the majority of weeds, such as field bindweed and hedge bindweed, are best controlled when weeds are in or beyond the full bloom stage.

Avoid disturbing treated areas following application. Treatments may not kill weeds which develop from seed or underground plant parts, such as rhizomes or bulblets, after the effective period for BANVEL. For seedling control, a follow-up program or other cultural practices could be instituted. For small grain in-crop uses of BANVEL, see the RATE AND TIMINGS section under the SMALL GRAINS heading for details.

**BANVEL RATES PER TREATED ACRE**

WEED TYPE	AMOUNT OF PRODUCT PER ACRE
Annual	1/2–1 pt (8–16 fl. oz)
Biennial	1–2 pt (16–32 fl. oz)
Perennial	1–4 pt (16–64 fl. oz)
Perennial suppression	1–2 pt (16–32 fl. oz)
Noted <sup>1</sup> perennials	2–4 pt (32–64 fl. oz)
Other perennials	4 pt (64 fl. oz)

Retreatments may be made as needed; however, **DO NOT** exceed a total of 4 pt of BANVEL per treated acre during any given fallow period.

**TANK MIX TREATMENTS**

BANVEL may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, weeds controlled, geographic and other restrictions.

**BANVEL BROADCAST RATE PER TREATED ACRE FOR ANNUAL WEED CONTROL:**

Apply 1/4 to 1 pt BANVEL with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
Aatrex <sup>®</sup> 4 <sup>1</sup>	atrazine	4.0 lb/gal	1/2–6.0 pt
Aatrex <sup>®</sup> Nine-O <sup>®1</sup>	atrazine	90% DF	1/2–3.3 lb
Ally <sup>®2</sup>	metsulfuron-methyl	75% DF	0.1 oz
Amber <sup>®2</sup>	triasulfuron	75% DF	0.28–0.35 oz
Bladex <sup>®1</sup>	cyanazine	90% DF	2.7–3.6 lb
Cyclone <sup>®</sup>	paraquat	2.0 lb/gal	1.0–2.0 pt
Fallow Master <sup>®</sup>	glyphosate + dicamba	1.6 lb/gal	22.0–44.0 fl oz
Finesse <sup>®2</sup>	chlorsulfuron + metsulfuron-methyl	75% DF	0.2 oz
Gramoxone <sup>®</sup> Extra	paraquat	2.5 lb/gal	1.5 pt
Kerb <sup>®1</sup>	pronamide	50-W	1/2–1.0 lb
Landmaster <sup>®</sup> BW	glyphosate + 2,4-D	2.4 lb/gal	27.0–54.0 fl oz
Roundup <sup>®</sup> or Roundup <sup>®</sup> RT	glyphosate	3.0 lb/gal	8.0–48.0 fl oz
Sencor <sup>®</sup> DF <sup>1</sup>	metribuzin	75% DF	1/2–1.0 lb
Sencor <sup>®</sup> 4 <sup>1</sup>	metribuzin	4.0 lb/gal	3/4–1 1/2 pt
2,4-D	2,4-D	4.0 lb/gal	1.0–2.0 pt (0.5–1.0 lb ai/A) <sup>3</sup>

1. Tank mixes of BANVEL with these products may be subject to special restrictions. See the Product Label of the tank mix partner for intended use rates, restrictions and other precautions.
2. When tank mixing with sulfonylurea herbicides, refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 1-2 quarts/100 gallons of spray or not more than 0.25-0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature weeds or dense vegetative growth. Sulfonylurea resistant weeds may not be controlled by tank mixes of BANVEL and a sulfonylurea. Refer to the BANVEL tank mix section for alternative tank mixes.



3. When using formulations other than 4 lb/gal use pounds active/acre listed.

**BANVEL BROADCAST RATE PER TREATED ACRE FOR BIENNIAL AND PERENNIAL WEED CONTROL:**

Apply 1 to 4 pt of BANVEL with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
Curtail®	clopyralid + 2,4-D	2.38 lb/gal	2.0–4.0 pt
2,4-D	2,4-D	4.0 lb/gal	2.0–6.0 pt (1.0–3.0 lb ai/A) <sup>1</sup>
Landmaster® BW	glyphosate + 2,4-D	2.4 lb/gal	54.0 fl oz
Roundup®	glyphosate	3.0 lb/gal	1.0–5.0 qts
Roundup® RT	glyphosate	3.0 lb/gal	1.0–5.0 qts
Tordon® 22K	picloram	2.0 lb/gal	1/2–1.0 pt

1. When using formulation other than 4.0 lb/gal use pounds active/acre listed.

**SPECIAL TANK MIX TREATMENTS**

For suppression of perennial weeds, apply 1/2-1 pt of BANVEL with 8-16 fl oz of Roundup® herbicide or Roundup® RT herbicide per treated acre. For wild garlic control, apply 1 pt BANVEL with 3 pt of 2,4-D LV Ester (4 lb/gal) per treated acre. Apply when wild garlic is 4 to 8 inches tall. For Canada thistle control, use BANVEL, or BANVEL plus Curtail® or BANVEL plus Roundup® herbicide or Roundup® RT tank mix treatments. Application may be made during fallow periods for control of volunteer barley, bulbous bluegrass, downy brome, jointed goatgrass, common ryegrass and volunteer wheat when they are actively growing. Use 1 pt BANVEL with 1/2-1 lb Kerb® 50W. Fall seeded wheat may be planted 9 months or more after application. For best performance, make application between mid-October and mid-December, prior to soil freeze up. During fallow periods, apply BANVEL plus Landmaster® BW or Fallow Master® herbicide to give improved control of kochia, wild buckwheat, prickly lettuce, field bindweed and Canada thistle. Use 1/8-1/4 pt of BANVEL plus 22 to 54 fl oz of Landmaster® BW or Fallow Master® herbicide for annual weed control or 1/4 to 1/2 pt BANVEL plus 22 to 54 fl oz of Landmaster® BW or Fallow Master® herbicide for perennial weed suppression.

**CROPPING RESTRICTIONS**

The following recommendations are based on BANVEL use rates up to 2 pt per treated acre.

CORN, SORGHUM and SOYBEANS may be planted in the spring following applications made during the previous year. If less than 1 inch of rainfall occurs between application and first killing frost, treated areas should be cultivated to allow herbicide to come in contact with moist soil. Cultivation may take place before or immediately after ground thaw.

NOTE: THE MINIMUM INTERVAL BETWEEN BANVEL APPLICATIONS AND PLANTING SOYBEANS IS 30 DAYS. Soybean injury may occur if the interval between application and planting is less than what is specified. In areas with greater than 30 inches of rainfall, delay planting for 30 days per pt of BANVEL per treated acre. In areas with less than 30 inches of rainfall, delay planting for 45 days per pt of BANVEL per treated acre. Exclude days when ground is frozen.

WHEAT may be planted in the fall or spring following applications. Also, spot applications may be made any time prior to crop emergence if crop injury can be tolerated in treated areas. Wheat injury may occur if the interval between application and planting is less than specified.

East of the Mississippi River, the interval is 20 days per pt of BANVEL per treated acre or 1.25 days per 1 ounce. Moisture is essential for BANVEL degradation. Exclude days when ground is frozen.

West of the Mississippi River, the interval is 45 days per pt of BANVEL per treated acre or 3 days per ounce. Moisture is essential for BANVEL degradation. Exclude days when ground is frozen.

Following a normal harvest of barley, oats, or wheat, any rotation crop may be planted. If the interval before harvest is shortened, such as when cover crops will be plowed under, do not follow up with the planting of a sensitive crop.

**CONTROL OF PERENNIAL BROADLEAF WEEDS IN CROPLAND  
(SPOT APPLICATION ONLY)**

FOR USE ONLY IN THE STATES OF IDAHO, MONTANA, NEVADA, OREGON, UTAH AND WASHINGTON.

**IMPORTANT**

Observe all precautions. Read and follow mixing and application instructions.

**DO NOT** treat subirrigated cropland or areas where the soil remains saturated with water throughout the year.

Make only one application on BANVEL per year.

**WEEDS CONTROLLED**

BANVEL, when applied at specified rates, will control many broadleaf weeds including:

Bindweed, Field

Knapweed, Russian

Dock, Broadleaf (Bitterdock)  
Dock, Curly  
Knapweed, Black

Ragwort, Tansy  
Spurge, Leafy  
Thistle, Canada

#### **RATES AND TIMINGS**

BANVEL may be applied at any time following a crop harvest to stubble, fallow or other cropland. Application should be made when weeds are actively growing and prior to a killing frost.

Apply 2 quarts (2 lb ai) of BANVEL per treated acre. Application may be made up to one month prior to the planting of wheat.

**NOTE: DO NOT** use unless injury to wheat or rotated barley will be acceptable.

Barley, oats, corn, sorghum (milo), annual or perennial grass crops may be planted into treated areas one year after application. Crops grown for seed (other than perennial grass seed) should not be planted into treated areas until three years after application. Do not plant broadleaf crops such as alfalfa, beans, peas, potatoes, or sugarbeets into treated areas until two years after application.

In most cases, treatments will not kill perennial weed seedlings, which germinate from seed one or two years after treatment. Once the effect of the chemical has been lost, a follow-up program for seedling control or other cultural practices should be instituted.

#### **WIPER APPLICATION USES**

**IMPORTANT:** Observe all precautions.

BANVEL may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush and vines. Use a solution containing 1 part BANVEL to 1 part water. **DO NOT** contact desirable vegetation with herbicide solution. Wiper application should only be made to crops (including pastures) and non-cropland areas described in this label with the exception of Grain Sorghum (Milo).

### **STORAGE AND DISPOSAL**

#### **PROHIBITIONS**

**DO NOT** contaminate water, food or feed by storage or disposal.

#### **PESTICIDE STORAGE**

Store in original containers in a well-ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust, or equivalent material for disposal.

#### **PESTICIDE DISPOSAL**

Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

#### **CONTAINER DISPOSAL**

Plastic or Metal containers equal to or less than 5 gallons: Nonrefillable container. **DO NOT** reuse or refill this container. Triple 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 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 ¼ 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Refillable containers: Refill this container with this pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. 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 percent full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

### Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.**

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# Banvel<sup>®</sup>

## Herbicide

HERBICIDE FOR WEED CONTROL IN CORN, SORGHUM, SMALL GRAINS, PASTURE, HAY, RANGELAND, FARMSTEAD (NON-CROPLAND), FALLOW, SUGARCANE, ASPARAGUS, TURF AND GRASS SEED CROPS.

ACTIVE INGREDIENT	By Weight
Dimethylamine salt of dicamba (3,6-dichloro-o-anisic acid)*	49.4%
OTHER INGREDIENTS:	50.6%
<b>TOTAL:</b>	<b>100.0%</b>

\* This product contains 41.0% 3,6-dichloro-o-anisic acid (dicamba) or 4 pounds per gallon (480 g/L).

## KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUTION

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 of booklet for complete Precautionary Statements and Directions For Use.

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**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.

**EMERGENCY TELEPHONE NUMBERS:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL:** 1-866-303-6952

**FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Caution:** Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

### 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 washwaters or rinseate. Apply this product only as directed on label.

### PHYSICAL OR CHEMICAL HAZARDS

Keep away from strong oxidizers.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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.

## STORAGE AND DISPOSAL

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EPA Reg. No. 66330-276

EPA Est. No. 68323-TX-001

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Manufactured for:

**Arysta LifeScience North America, LLC**  
15401 Weston Parkway, Suite 150 • Cary, NC 27513

Net Contents: 2.5 gallon