

59639-116

04/27/2004

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ACCEPTED  
APR 27 2004

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

59639-116

# V-10070 38 WDG

(HERBICIDE)

FOR WEED CONTROL IN SOYBEANS

Active Ingredient	By Wt.
<sup>1</sup> Flumioxazin .....	25.5%
<sup>2</sup> Chlorimuron ethyl .....	12.5%
Other Ingredients .....	62.0%
Total .....	100.0%

<sup>1</sup>2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydr-1H-isoindole-1,3(2H)-dione

<sup>2</sup>Ethyl 2-[[[(4-chloro-6-methoxypyrimidin-2-yl) amino]carbonyl]amino]sulfonyl]benzoate

V-10070 is a water dispersible granule containing 38% active ingredient.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT 5 POUNDS

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS & DOMESTIC ANIMALS

#### CAUTION

Harmful if inhaled, swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust and spray mist. Avoid contact with skin, eyes or clothing.

#### FIRST AID

- If inhaled:**
- Move person to fresh air.
  - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
  - Call a poison control center or doctor for further 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 by a poison control center or doctor.
  - Do not give anything by mouth to any unconscious person.
- 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 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.

#### HOT LINE 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 **1-800-892-0099** for emergency medical treatment information.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, socks and shoes. 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.

#### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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.

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**ENVIRONMENTAL HAZARDS:**

This product is toxic to non-target plants and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff may be hazardous to non-target plants and aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

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

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

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 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 12 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, chemical-resistant gloves made of any waterproof material, socks plus shoes.

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**DISCLAIMER, RISKS OF USING THIS PRODUCT,  
LIMITED WARRANTY  
AND LIMITATION OF LIABILITY**

**IMPORTANT:** Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

**RISKS OF USING THIS PRODUCT**

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

**LIMITED WARRANTY**

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. EXCEPT AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

**LIMITATION OF LIABILITY**

In no event shall Valent or Seller be liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

**PROMPT NOTICE OF CLAIM**

Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

If Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

**NO AMENDMENTS**

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

**TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

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## GENERAL INFORMATION

V-10070 is a selective herbicide for preemergence control of susceptible broadleaf weeds and suppression of certain annual grasses in soybeans. V-10070 also offers control of certain emerged broadleaf weeds when applied as part of a burndown treatment.

V-10070 has two modes of action, and rapidly inhibits the growth of susceptible weed species. Following application, susceptible weed species may germinate and emerge. Seedling weeds will then either turn brown and die shortly after being exposed to light, or will cease growing, turn yellow, and then turn brown from the growing point out. Susceptible species usually do not grow past the cotyledon stage before they die from either mode of action. Less susceptible species may remain green, but will be stunted and non-competitive.

## GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply this product when weather conditions favor spray drift from treated areas.
- Do not make more than one application of V-10070 per season.
- Do not apply more than 6 oz. of V-10070 per acre during a single growing season.
- Do not graze treated fields or feed treated forage or hay to livestock.
- Do not apply this product through any type of irrigation system.
- Do not tank mix or use in the same field with acetamide-containing herbicides, such as Axiom<sup>®</sup> (or other fluthiamide products); Micro-Tech<sup>®</sup> (or other alachlor products); Dual<sup>®</sup> (or other metolachlor products); or Frontier<sup>®</sup> (or other dimethenamid products); or soybean injury may occur.
- Do not apply by air.

## ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

### PREEMERGENCE APPLICATIONS

**Important:** Crop injury may occur from applications made to poorly drained soils under cool, wet conditions. Risk of crop injury can be minimized by not using on poorly drained soils, planting at least 1.5 inches deep, and completely covering seeds with soil prior to preemergence applications.

Moisture is necessary to activate V-10070 WDG Herbicide in soil for residual weed control. Dry weather following applications of V-10070 may reduce effectiveness. However, when adequate moisture is received after dry conditions, V-10070 will control susceptible germinating weeds.

When adequate moisture is not received after soil-applied treatments of V-10070, weed control may be improved by utilizing shallow cultivation. If weeds begin to emerge, irrigate (1/4 inch of water) or cultivate uniformly with shallow-tillage equipment, such as a rotary hoe, that will not damage the crop. Deep cultivation reduces the effectiveness of V-10070 and should be avoided.

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## **BURNDOWN APPLICATIONS**

For best results, V-10070 should be applied to actively growing plants. Applying V-10070 under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply V-10070 when weeds are under stress due to drought, excessive water, extremes in temperature, disease, or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. V-10070 is most effective when applied under sunny conditions at temperatures above 65°F.

V-10070 is rainfast 1 hour after application. Applications should not be made if rain is expected within 1 hour of application or efficacy may be reduced.

## **TIMING TO SOYBEANS**

V-10070 may be applied from three weeks prior to planting to before soybean emergence. Application after the soybeans emerge will result in severe crop injury. Select V-10070 rate from Table 1 according to anticipated weed spectrum.

## **SOIL CHARACTERISTICS**

Application of V-10070 to soils with high organic matter and/or high clay content may require higher dosages than soils with low organic matter and/or low clay content. Application to cloddy seedbeds can result in reduced weed control.

## **HERBICIDE RATE**

V-10070 rate for preemergence application, as well as when used as part of a burndown program, should be based upon soil characteristics and the most difficult-to-control weed species being targeted for preemergence control. Select the proper V-10070 dosage from Table 1. Table 2 list weeds that are suppressed by V-10070.

## **CARRIER VOLUME AND SPRAY PRESSURE**

### **PREEMERGENCE APPLICATIONS**

To ensure uniform coverage, use 10 to 30 gals. of spray solution per acre for conventional-tillage application. Nozzle selection should meet manufacturer's gallonage and pressure recommendation for preemergence herbicide application.

### **BURNDOWN APPLICATIONS**

To ensure thorough coverage in burndown applications, use 15 to 30 gals. of spray solution per acre. Use 20 to 30 gals. per acre if dense vegetation or heavy crop residue is present. Nozzle selection should meet manufacturer's gallonage and pressure recommendations for postemergence herbicide application.

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## **ADDITIVES FOR BURNDOWN APPLICATIONS**

Postemergence control of weeds from V-10070 requires the addition of an agronomically approved adjuvant to the spray mixture. Either a crop oil concentrate or methylated seed oil which contains at least 15% emulsifiers and 80% oil, may be used when applying V-10070 as part of a burndown program. Certain tank mixes and/or use patterns may require the use of a non-ionic surfactant in place of crop oil concentrate or methylated seed oil. Non-ionic surfactants must contain at least 80% active ingredient. Mixing compatibility qualities should be verified by a jar test.

A spray grade nitrogen source (either ammonium sulfate at 2.0 to 2.5 lb./A or a 28 to 32% nitrogen solution at 1 to 2 qts./A) may be added to the spray mixture along with either a crop oil concentrate, methylated seed oil, or non-ionic surfactant to enhance weed control. The addition of a nitrogen source does not replace the need for crop oil concentrate, methylated seed oil, or non-ionic surfactant.

## **JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND V-10070 WDG HERBICIDE**

When using V-10070 and an adjuvant, such as in stale seed bed or reduced tillage situations, a jar test should be performed before mixing commercial quantities of V-10070, when using V-10070 for the first time, when using new adjuvants, or when a new water source is being used.

1. Add 1 pt. of the water to a quart jar. The water should be from the same source and temperature as which will be used in the spray tank mixing operation.
2. Add 2 gm of V-10070 to the quart jar, gently mix until product dissolves.
3. Add 60 ml (4 tbsp. or 2 fl. oz.) of the crop oil or methylated seed oil to the quart jar, gently mix. If a non-ionic surfactant is being used in a tank mix, add 2.5 ml (1/2 tsp.) of the non-ionic surfactant in place of the oil.
4. If nitrogen is being used, add 16 ml (1 Tbsp. or 0.5 oz) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 gms AMS to the quart jar in place of the 28 to 32% nitrogen.
5. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
6. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed the choice of adjuvant should be questioned:
  - a) Layer of oil or globules on the mixture's surface.
  - b) Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
  - c) Clabbering: Thickening texture (coagulated) like gelatin.



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### **SPRAYER PREPARATION AND CLEANUP**

Before applying V-10070, start with clean, well maintained application equipment. The spray tank, as well as all hoses, and booms, should be cleaned to ensure no residue from the previous spraying operation remain in the sprayer. Some pesticides, including the sulfonyleurea and phenoxy herbicides, are active at very small amounts and can cause crop injury when applied to susceptible crops. The spray equipment should be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply V-10070.

After V-10070 is applied, the following steps should be used to clean the spray equipment:

1. Drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank.
2. Fill the spray tank with clean water and flush all hoses, booms, and nozzles.
3. Top off tank, add 1 gal. of 3% household ammonia for every 100 gals. of water, circulate through sprayer for 5 minutes, and then flush all hoses, booms, and nozzles.
4. Drain tank.
5. Remove all nozzles and screens and rinse them in clean water.

### **MIXING INSTRUCTIONS**

1. Fill clean spray tank 1/3 to 1/2 of desired level with clean water.
2. While agitating, add the required amount of V-10070. Agitation should create a rippling or rolling action on the water surface. If tank mixing V-10070 with other labeled herbicides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates, and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
3. Add any required adjuvants.
4. Fill spray tank to desired level with water. Agitation should continue until spray solution has been applied.
5. Mix only the amount of spray solution that can be applied the day of mixing. V-10070 should be applied within 6 hours of mixing.

### **APPLICATION EQUIPMENT**

Application equipment should be clean and in good repair. Nozzles should be uniformly spaced on boom and frequently checked for accuracy.

### **BROADCAST APPLICATION**

Apply V-10070, and V-10070 tank mixes, with ground equipment using standard commercial sprayers equipped with flat fan or flood nozzles (preemergence applications only) designed to deliver the desired spray pressure and spray volume.

### **BAND APPLICATION**

When banding, use proportionately less water and V-10070 per acre.

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**CROP FAILURE**

If the crop treated with V-10070 is lost due to a catastrophe, such as hail or other forms of inclement weather, soybeans can be replanted immediately.

**ROTATIONAL RESTRICTIONS**

Prior to using V-10070, consideration should be given to crop rotation plans. Crops other than soybeans may be extremely sensitive to low concentrations of V-10070 remaining in the soil the next planting season. Choice of rotational crop is restricted following application of V-10070.

The following rotational crops may be planted after applying V-10070 at the recommended rate. Planting earlier than the recommended rotational interval may result in crop injury.

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Rotational Interval in Months			
Crop	Region 1 <sup>1</sup>		Region 2 <sup>2</sup>
	Soil pH less than 7.0	Soil pH 7.0 or greater	All Soil pH's
Soybean	Immediately	Immediately	Immediately
Barley, Ryegrass, Wheat, Winter Rye	4	4	4
Field Corn <sup>3</sup> , Clearfield <sup>4</sup> (Resistant)	8	8	8
Cotton	10	18	10
Rice	10	18	10
Tobacco (Transplant)	10	18	10
Tomato (Transplant)	10	18	10
Field Corn <sup>4</sup>	12	18	12
Alfalfa	12	18	12
Clover	12	18	12
Dry Beans, Kidney Beans, Snap Beans, Peas	12	30	12
Sorghum	10	18	12
Cucumbers, Flax, Peanuts, Pumpkins, Sunflowers, Sweet Corn, Watermelon, Cabbage, Canola (Rapeseed), Lentils, Mustards	18	30	18
Carrot, Onion, Potato, Sugarbeet, and any other crop not listed	18	30	30

<sup>1</sup>Region 1 includes the states of AL, AR, DE, FL, GA, KY, LA, MD, MO bootheel, MS, NC, NJ, SC, TN, TX, VA, and WV.

<sup>2</sup>Region 2 includes the states of IA, IL, IN, KS, MI, MO (except bootheel), NE, OH, OK, and PA.

<sup>3</sup>Field corn, IR (Resistant) indicates those field corn hybrids offered by Pioneer Hi-bred International, Inc., or Novartis Seeds, which carry the designation "IR", "IMR", or Clearfield in the hybrid name.

<sup>4</sup>Field corn is defined to include only that corn grown for grain or silage, popcorn, and seed corn. However, because seed corn inbred lines may vary in their sensitivity to trace amounts of herbicide carryover, Valent cannot warrant that seed corn can be re-cropped without damage or yield loss. User should seek the advice of their seed corn company agronomist regarding inbred sensitivity to herbicides prior to planting any inbred lines.

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### **ADDITIONAL PREEMERGENCE BROADLEAF CONTROL**

V-10070 can be tank mixed with Metribuzin, CANOPY<sup>®</sup>, FIRSTRATE<sup>®</sup>, LOROX<sup>®</sup>, PURSUIT PLUS<sup>®</sup>, PYTHON<sup>®</sup>, SQUADRON<sup>®</sup>, SCEPTER<sup>®</sup>, or STEEL<sup>®</sup> for additional broadleaf control.

### **ADDITIONAL PREEMERGENCE GRASS CONTROL**

V-10070 can be tank mixed with Pendimethalin or COMMAND<sup>®</sup> for additional grass control. Tank mixes with fluthiamide (AXIOM), metolachlor (DUAL), dimethenamid (FRONTIER), or alachlor (MICRO-TECH), may result in severe injury to soybeans when application is followed by prolonged periods of cool wet weather and should not be used with V-10070.

**Read tank mix product label for rates and weeds controlled. Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix product must be followed. V-10070, when applied according to label use directions, will control the weeds listed in Table 1. This label makes no claims concerning control of other weed species.**

### **ROUNDUP READY PROGRAM**

V-10070 may be applied preemergence to control weeds which a postemergence application of glyphosate may miss, such as velvetleaf, annual morningglories, hemp sesbania, annual nightshades, waterhemp, and prickly sida. Refer to Table 1 for recommended rates. A sequential postemergence application of a glyphosate containing herbicides may be required to control weeds not controlled by V-10070 in Roundup Ready soybeans. Non-glyphosate containing herbicides may also be used to control weeds not controlled by preemergence applications of V-10070.

### **REDUCING EARLY SEASON COMPETITION IN TRANSGENIC SOYBEAN SYSTEMS**

V-10070 may be applied at 1/2 rates (Refer to Table 1) in transgenic soybean systems to reduce early season weed competition. A postemergence application of glyphosate or sulfosate in "Roundup Ready" systems, or Synchrony<sup>®</sup>/Reliance<sup>®</sup> in "STS" systems, must be applied to control weeds which break through the reduced V-10070 rate.

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**Table 1. Broadleaf Weeds Controlled by Preemergence Application of V-10070.**

<b>BROADLEAF WEED SPECIES</b>				
<b>SECTION A</b>				
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>	<b>ORGANIC MATTER</b>	<b>SOIL TYPE</b>	<b>V-10070 RATE</b>
Carpetweed Common Lambsquarters Common Purslane Copperleaf Hophornbeam Virginia Eclipta Florida Pusley Hairy Indigo Kochia Little Mallow Nightshades Black Eastern Black Hairy Pigweeds Redroot Smooth Spiny Amaranth Tumble Prickly Sida (Teaweed) Puncturevine Redmaids  Shepherd's-purse Smallflower Morningglory Spotted Spurge Venice Mallow Wild Mustard	<i>Mollugo verticillata</i> <i>Chenopodium album</i> <i>Portulaca oleracea</i>  <i>Acalypha ostryifolia</i> <i>Acalypha virginica</i> <i>Eclipta prostrata</i> <i>Richardia scabra</i> <i>Indigofera hirsuta</i> <i>Kochia scoparia</i> <i>Malva parviflora</i>  <i>Solanum nigrum</i> <i>Solanum ptycanthum</i> <i>Solanum sarrachoides</i>  <i>Amaranthus retroflexus</i> <i>Amaranthus hybridus</i> <i>Amaranthus spinosus</i> <i>Amaranthus albus</i> <i>Sida spinosa</i> <i>Tribulus terrestris</i> <i>Calandrinia ciliata</i> var. <i>menziessi</i> <i>Capsella bursa-pastoris</i> <i>Jacquemontia tamnifolia</i> <i>Euphorbia maculata</i> <i>Hibiscus trionum</i> <i>Brassica kaber</i>	0.5 to 5%	All Soil Types	4 oz./A
<b>SECTION B</b>				
All weeds listed for 3.25 oz./A plus				
<b>COMMON NAME</b>	<b>SCIENTIFIC NAME</b>	<b>ORGANIC MATTER</b>	<b>SOIL TYPE</b>	<b>V-10070 RATE</b>
Coffee Senna Florida Beggarweed Hemp Sesbania Jimsonweed Morningglories* Entire leaf  Ivyleaf Pitted Tail Palmer Amaranth Ragweed Common Giant Smartweeds Ladysthumb Pennsylvania Tropic Croton Sunflower, Common Velvetleaf  Waterhemp Common Tall Wild Poinsettia	<i>Cassia occidentalis</i> <i>Desmodium tortuosum</i> <i>Sesbania exaltata</i> <i>Datura stramonium</i>  <i>Ipomoea hederacea</i> var. <i>integriscula</i> <i>Ipomoea hederacea</i> <i>Ipomoea lacunosa</i> <i>Ipomoea purpurea</i> <i>Amaranthus palmeri</i>  <i>Ambrosia artemisiifolia</i> <i>Ambrosia trifida</i>  <i>Polygonum persicaria</i> <i>Polygonum pennsylvanicum</i> <i>Croton glandulosus</i> <i>Helianthus annuus</i> <i>Abutilon theophrasti</i>  <i>Amaranthus rudis</i> <i>Amaranthus tuberculatus</i> <i>Euphorbia heterophylla</i>	0.5 to 3%	All Soil Types	5.0 oz./A
		3 to 5%	Coarse and Medium Soils: (sandy loam, loamy sand, loamy, silt-loam, silt, sandy clay, sandy clay loam)	6.0 oz./A

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**Table 2. Weeds Suppressed by Preemergence Application of V-10070 .**

<b>GRASS WEED SPECIES</b>		<b>V-10070 RATE</b>
Signalgrass Crabgrass, Large Barnyardgrass Goosegrass Lovegrass, California Panicums Fall Texas	<i>Bracharia platyphylla</i> <i>Digitaria sanguinalis</i> <i>Echinochloa crus-galli</i> <i>Eleusine indica</i> <i>Eragrostis diffusa</i>  <i>Panicum dichotomiflorum</i> <i>Panicum texanum</i>	4 oz./A

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## DIRECTIONS FOR USE IN BURNDOWN PROGRAMS

V-10070 can be used with glyphosate, paraquat, sulfosate, or 2,4-D containing products to enhance the speed of burndown and increase weed spectrum.

### INCREASING SPEED OF GLYPHOSATE/SULFOSATE BURNDOWN ACTIVITY

V-10070 may be tank mixed at 1 to 6 oz./A with Roundup Ultra® (or other glyphosate products) or Touchdown® (sulfosate) to increase the speed of burndown activity compared to these products applied alone. Preemergence weed control will only be achieved with rates of 4 to 6 oz./A, depending on soil type.

### TIMING TO WEEDS

#### BURNDOWN - PREEMERGENCE TO SOYBEANS, POSTEMERGENCE TO WEEDS

V-10070, applied as part of a burndown program, may be used for preemergence weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where soybeans will be planted directly into a stale seedbed, cover crop, or in previous crop residues. For control of emerged weeds, choose the most appropriate tank mix partner from Table 3. Apply V-10070 before planting, during planting, or after planting, **but before the crop emerges.**

### TANK MIXES

V-10070 may be tank mixed with the herbicides listed in Table 3 for increased burndown activity, additional broadleaf control, and/or additional grass control. Refer to tank mix partner's label for adjuvant recommendations.

**Table 3. Tank Mix Partners for Control of Emerged Weeds in Reduced Tillage Soybeans**

TANK MIX PARTNER	TARGET WEEDS <sup>(1)</sup>
GRAMOXONE EXTRA®	<ul style="list-style-type: none"> <li>• Chickweed</li> <li>• Henbit</li> </ul>
GLYPHOSATE	<ul style="list-style-type: none"> <li>• General Burndown</li> </ul>
SELECT®	<ul style="list-style-type: none"> <li>• Foxtails</li> <li>• Fall Panicum</li> </ul>
TOUCHDOWN	<ul style="list-style-type: none"> <li>• General Burndown</li> </ul>
2,4-D LVE	<ul style="list-style-type: none"> <li>• Marestalk</li> <li>• Giant Ragweed</li> <li>• Dandelion</li> </ul>

<sup>(1)</sup> Refer to tank mix product labels for specific recommendations for control of emerged weeds present.

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## STORAGE AND DISPOSAL

### PROHIBITIONS

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

### PESTICIDE STORAGE

Keep pesticide in original container.

Store in a cool, dry, secure place.

Do not put formulation or dilute spray solution into food or drink containers.

Do not contaminate food or foodstuffs.

Do not store or transport near feed or food.

Not for use or storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night (800) 892-0099.

### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL

Completely empty canister into application equipment. Do not reuse container. Dispose of empty canister in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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AXIOM® - Reg. TM of Bayer Corporation  
 CANOPY® - Reg. TM of E.I. duPont de Nemours & Co., Inc.  
 COMMAND® - Reg. TM of FMC Corporation for clomazone herbicide.  
 DUAL® - Reg. TM of Novartis for metolachlor herbicide.  
 FIRSTRATE® - Reg. TM of Dow AgroSciences LLC for cloransulam methyl herbicide.  
 FRONTIER® - Reg. TM of BASF Corporation for dimethenamid herbicide.  
 GRAMOXONE EXTRA® - Reg. TM of Zeneca Ag Products for paraquat herbicide.  
 MICROTECH® - Reg. TM of Monsanto Co. for alachlor herbicide.  
 LOROX® - Reg. TM of Griffin LLC  
 PURSUIT PLUS® - Reg. TM of American Cyanamid Co.  
 PYTHON® - Reg. TM of Dow AgroSciences LLC for flumetsulam herbicide.  
 RELIANCE® - Reg. TM of E.I. duPont de Nemours & Co., Inc.  
 ROUNDUP READY® - Reg. TM of Monsanto Co.  
 ROUNDUP ULTRA® - Reg. TM of Monsanto Co. for glyphosate herbicide.  
 SCEPTER® - Reg. TM of American Cyanamid Co. for imazaquin herbicide.  
 SELECT® - Reg. TM of Valent U.S.A. Corporation for clethodim herbicide.  
 SQUADRON® - Reg. TM of American Cyanamid Co.  
 STEEL® - Reg. TM of American Cyanamid Co.  
 STS® - Reg. TM of E.I. duPont de Nemours & Co., Inc.  
 SYNCHRONY® - Reg. TM of E.I. duPont de Nemours & Co., Inc.  
 TOUCHDOWN® - Reg. TM of Zeneca Ag Products for sulfosate herbicide.

Manufactured for:

**Valent U.S.A. Corporation**

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