

59639-122

11-19-2002

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

59639-122

Date of Issuance:

NOV 19 2002

NOTICE OF PESTICIDE:

Registration
 Reregistration

Term of Issuance:

Conditional

Name of Pesticide Product:

V-10097 Herbicide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Valent U.S.A. Corporation
1333 North California Blvd. Suite 600
P.O. Box 8025
Walnut Creek, CA 94596-8025

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment.
 - a. Add the phrase "EPA Registration No. 59639-122."
 - b. At the beginning of the list of Personal Protective Equipment (PPE) within the Precautionary Statements, add the statements "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." In addition, revise the requirement for "waterproof gloves" to a requirement for "chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride."
 - c. Within the list of PPE for early re-entry in the Agricultural Use Requirements box, revise the requirement for "waterproof gloves" to a for chemical resistant gloves made of any waterproof material.

Signature of Approving Official:

Date:

11-19-02

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d. Refer to attachment entitled "Spray Drift Management" for statements required for products that are applied by aerial application.

3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of labeling is enclosed for your records.

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V-10097™ HERBICIDE

Active Ingredient	By Wt.
*Flumiclorac pentyl ester	0.576%
**Glyphosate	40.700%
Other Ingredients	58.724%
Total	100.000%

*pentyl [2-chloro-4-fluoro-5-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)phenoxy]acetate
 **N-(phosphonomethyl) in the form of its glycine, isopropylamine salt

Contains 0.056 pounds flumiclorac pentyl ester per gallon.
 Contains 4.00 pounds glyphosate per gallon.

U.S. Patent Pending.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS 1 GALLON

A C C E P T E D

NOV 19 2002

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under
 FFA Reg. No. 59 639-122

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION**

Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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 Inhaled:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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.
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.	

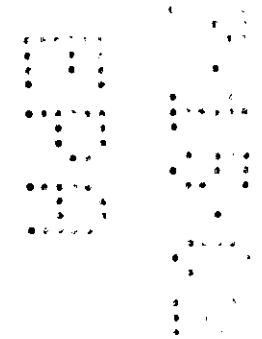
PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks. Follow manufacturer's instructions for cleaning maintaining PPE. If no such instructions for washables, 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. As soon as possible, wash thoroughly and change into clean clothing.



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ENVIRONMENTAL HAZARDS

This product is toxic to shrimp. Keep out of lakes, ponds, and streams. 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 cleaning equipment or disposing of equipment washwaters or rinsate.

PHYSICAL OR CHEMICAL HAZARDS

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT, OR SPRAY SOLUTIONS OF THIS PRODUCT, IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product, or spray solutions of this product, react with such containers to produce hydrogen gas, which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette, or other ignition sources.

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 the 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 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, waterproof gloves, shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

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

Keep all unprotected persons out of operating areas or vicinity where there may be drift.
Do not enter treated areas without protective clothing until sprays have dried.

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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-10097 Herbicide is a non-selective herbicide for general burndown of emerged weeds. V-10097 can also be used postemergence to control susceptible broadleaf weeds in Roundup Ready field corn and Roundup Ready soybeans.

GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply this product through any type of irrigation system.
- Do not apply more than two quarts (64 fl. oz.) per acre of V-10097 by air in a single application unless otherwise specified on the label.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

For best results, V-10097 should be applied to actively growing weeds within the growth stages indicated in this label. Applying V-10097 under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply V-10097 when the crop or 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-10097 is most effective when applied under sunny conditions at temperatures above 60°F.

RAINFASTNESS

V-10097 is rainfast two hours after application. Applications should not be made if rain is expected within two hours of application or efficacy may be reduced.

CARRIER VOLUME AND SPRAY PRESSURE

Use V-10097 on a broadcast basis in a minimum of 10 gals. of water per acre and a spray pressure of 35 to 40 PSI measured at the spray nozzle. If weed populations are moderate to heavy and/or weeds are approaching maximum label size and/or crop canopy is dense, use a minimum of 20 GPA of water and a spray pressure of 40 PSI. Nozzle selection should meet manufacturer's gallonage and pressure recommendations for postemergence herbicide application.

ADDITIVES

Control of weeds with V-10097, requires the addition of a non-ionic surfactant at 0.5% v/v. Non-ionic surfactant must contain at least 80% active ingredient and must be EPA approved for use on food crops. Mixing and compatibility qualities should be verified by a jar test.

Ammonium sulfate, at 2.0 to 2.5 lbs./A, must be added to the spray mixture along with non-ionic surfactant. The addition of ammonium sulfate does not replace the need for non-ionic surfactant.

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JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND V-10097

A jar test should be performed before mixing commercial quantities of V-10097 when using V-10097 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 will be used in the spray tank mixing operation.
2. Add 19 grams of ammonium sulfate to the quart jar.
3. Add 14.8 ml (3 tsps.) of V-10097 to the quart jar, gently mix until product dissipates.
4. Add 2.5 ml (0.3 tsp.) of the non-ionic surfactant.
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.

SPRAYER PREPARATION

Before applying V-10097, start with clean, well maintained application equipment. The spray tank, as well as all hoses and booms, must be cleaned to ensure no residue from the previous spraying operation remains in the sprayer. Some pesticides, including but not limited to, the sulfonylurea and phenoxy herbicides, (i.e. Classic® and 2,4-D) are active at very small amounts and can cause crop injury when applied to susceptible crops. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply V-10097. If two or more products were tank mixed prior to V-10097 application, the most restrictive cleanup procedure should be followed.

MIXING INSTRUCTIONS

1. Fill spray tank with water $\frac{1}{5}$ to $\frac{1}{2}$ of desired level with clean water.
2. While agitating, add ammonium sulfate. Agitation should create a rippling or rolling action on the water surface.
3. Add the required amount of V-10097. If tank mixing V-10097 with other labeled pesticides, 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.
4. Add non-ionic surfactant.
5. Fill spray tank to desired level with water. Agitation should continue until spray solution has been applied.
6. Mix only the amount of spray solution that can be applied the day of mixing.

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SPRAYER CLEANUP

After V-10097 is applied, the following steps must be used to clean the spray equipment:

1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
2. Fill the spray tank with clean water and flush all hoses, booms, screens, 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, screens, and nozzles for a minimum of 15 minutes.
4. Drain tank completely.
5. Add enough clean water to the spray tank to allow all hoses, booms, screens, and nozzles to be flushed for 2 minutes.
6. Remove all nozzles and screens and rinse them in clean water.

Spray equipment, including all tanks, hoses, booms, screens, and nozzles, should be thoroughly cleaned before it is used to apply postemergence pesticides. Equipment with V-10097 residue remaining in the system may result in crop injury to the subsequently treated crop.

APPLICATION EQUIPMENT

Application equipment should be clean and in good repair. Nozzles should be uniformly spaced on the boom and frequently checked for accuracy. Ground speed should not exceed 10 mph to provide proper spray coverage. Boom height, ground speed, and pressure recommendations should not exceed those recommended by the spray nozzle manufacturer for the type and size of nozzle being used. Improper use of the selected spray nozzle will adversely affect the spray pattern, prevent proper coverage of weed leaf surface, and reduce weed control.

Refer to the manufacturer's spray chart for nozzle selection and operating information. Special attention should be given to preparing and operating the spray equipment to assure proper coverage of weed foliage.

BROADCAST APPLICATION

Apply V-10097, and V-10097 tank mixes, with ground equipment using standard commercial sprayers equipped with flat fan (including split-nozzle systems which spray in opposite directions) or hollow cone nozzles designed to deliver the desired spray pressure and spray volume. DO NOT USE flood nozzles. Thorough weed coverage is required for optimum control. Spray nozzles should be centered at a maximum of 20 inch spacing to provide adequate coverage.

BAND APPLICATION

When banding, use proportionately less water and V-10097 per acre. Banding equipment should be adjusted to provide maximum coverage of weeds in the row. A minimum of two nozzles per row is required to provide optimum coverage of weed foliage.

AERIAL APPLICATION

To obtain satisfactory weed control with aerial application of V-10097, use as part of a labeled tank mix. Uniform coverage must be obtained. To obtain satisfactory application and avoid drift, the following directions must be observed:

Do not apply during low-level inversion conditions, when winds are gusty or under any other condition which favors drift. Do not spray when drift is possible or when wind velocity is more than 10 mph.

Drift may cause damage to any vegetation contacted to which application is not intended. To prevent injury to adjacent desirable vegetation, appropriate buffer zones must be maintained.

- Do not apply this product within 40 feet of non-target plants including non-target crops.
- Do not apply this product within 70 feet of streams, wetlands, marshes, ponds, lakes, and reservoirs.

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Maximum Use Rate

The maximum rate of V-10097 that can be applied by air is 2 qts./A. A maximum of an additional 4 qts./A of V-10097 can be applied by ground after a minimum of 14 days after the aerial application.

When applied aerially followed by ground application do not exceed a maximum of 6 qts./A of V-10097 per season.

Carrier Volume and Spray Pressure

Use V-10097 in 3 to 15 gals. of water per acre and a maximum spray pressure of 40 PSI. Application at less than 3 gals. per acre will provide inadequate control. The higher gallonage applications generally afford more consistent weed control.

Nozzle and Nozzle Orientation

Use nozzles which produce flat or hollow cone spray patterns. Use non-drip type nozzles, such as diaphragm-type nozzles to avoid unwanted discharge of spray solution.

Do not angle nozzles forward into the air stream and do not increase spray volume by increasing nozzle pressure. The nozzles must be directed toward the rear of the aircraft, at an angle between 0 and 15° downward. Do not place nozzles on the outer 25% of the wings or rotors.

Adjuvants and Drift Control Additives

Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

APPLICATION AND CULTIVATION

Do not cultivate within 7 days prior to application or until at least 7 days after application. Do not generate excessive dust while spraying. Excessively dusty conditions may interfere with the coverage of the weed leaf surface by the spray solution.

SEQUENTIAL APPLICATIONS

A sequential application of V-10097 can be made after a minimum of 14 days have passed following the first application of V-10097 to control new flushes of susceptible weeds.

CROP FAILURE

If the crop treated with V-10097 is lost due to a catastrophe, such as hail or other forms of inclement weather, refer to crop "ROTATIONAL RESTRICTIONS" below.

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ROTATIONAL RESTRICTIONS

Do not rotate to crops other than soybeans or field corn within 30 days after last V-10097 Herbicide application.

Do not rotate to small grains for at least 120 days after last application of V-10097 Herbicide.

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WEEDS CONTROLLED BY V-10097

Weeds listed in Table 1 are controlled by V-10097. Refer to Table 1 for V-10097 rates and maximum weed heights.

Table 1. Weeds and Weed Sizes Controlled By V-10097

Common Name	Scientific Name	Maximum Height/Length Inches	Rate Per Acre (Fl. Oz.)
Anoda, spurred	<i>Anoda cristata</i>	3	32
Barley			
Common	<i>Hordeum vulgare</i>	12	12
Little	<i>Hordeum pusillum</i>	20	32
Barnyardgrass	<i>Echinochloa crus-galli</i>	6	24
Bittercress	<i>Cardamine</i> spp.	20	32
Bluegrass			
Annual	<i>Poa annua</i>	6	16
Bulbous	<i>Poa bulbosa</i>	6	16
Brome			
Downy	<i>Bromus tectorum</i>	6	12
Japanese	<i>Bromus japonicus</i>	6	32
Burcucumber	<i>Sicyos angulatus</i>	12	32
Buttercup	<i>Ranunculus</i> spp.	12	16
Carpetweed	<i>Mollugo verticillata</i>	12	32
Chamomile, mayweed	<i>Anthemis cotula</i>	6	32
Cheat	<i>Bromus secalinus</i>	6	16
		20	32
Chervil	<i>Anthriscus cerefolium</i>	20	32
Chickweed			
Common	<i>Stellaria media</i>	6	16
Mouseear	<i>Cerastium vulgatum</i>	6	16
Cocklebur, common	<i>Xanthium strumarium</i>	12	16
Copperleaf			
Hophornbeam	<i>Acalypha ostryifolia</i>	3	32
Virginia	<i>Acalypha virginica</i>	3	32

continued

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Table 1. Weeds and Weed Sizes Controlled by V-10097 (continued)

Common Name	Scientific Name	Maximum Height/Length Inches	Rate Per Acre (Fl. Oz.)
Corn (non Roundup Ready)	<i>Zea mays</i>	6	16
		20	32
Crabgrass	<i>Digitaria</i> spp.	12	16
Cupgrass, woolly	<i>Eriochloa villosa</i>	12	32
Dwarf dandelion, weedy	<i>Krigia caespitosa</i>	12	16
Eclipta	<i>Eclipta prostrata</i>	12	32
Evening primrose, cutleaf	<i>Oenothera laciniata</i>	12	32
Falsedandelion, Carolina	<i>Pyrhopappus carolinianus</i>	20	32
False flax, smallseed	<i>Camelina microcarpa</i>	12	16
Fiddleneck	<i>Amsinckia</i> spp.	6	32
Fleabane	<i>Erigeron</i> spp.	6	48
Fleabane, hairy	<i>Conyza bonariensis</i>	6	48
Foxtail Carolina	<i>Setaria</i> spp. <i>Alopecurus carolinianus</i>	12	8
		12	16
Geranium, Carolina	<i>Geranium carolinianum</i>	12	32
Goatgrass, jointed	<i>Aegilops cylindrica</i>	6	32
Goosegrass	<i>Eleusine indica</i>	12	32
Groundsel, common	<i>Senecio vulgaris</i>	6	16
Hemp, sesbania	<i>Sesbania exaltata</i>	4	48
Henbit	<i>Lamium amplexicaule</i>	6	16
Horseweed/Marestail	<i>Conyza canadensis</i>	Up to 6	32
		7 to 12	48
Itchgrass	<i>Rottboellia cochinchinensis</i>	18	32
Jimsonweed	<i>Datura stramonium</i>	6	32
Johnsongrass, seedling	<i>Sorghum halepense</i>	12	16
Junglerice	<i>Echinochloa colona</i>	7	32
Knotweed, prostrate	<i>Polygonum aviculare</i>	12	32
Kochia	<i>Kochia scoparia</i>	6	48
Lambsquarters, common	<i>Chenopodium album</i>	Up to 6	16
		7 to 12	24
Lettuce, prickly	<i>Lactuca serriola</i>	6	48
		20	32
Millet, wild-proso (broomcorn millet)	<i>Panicum miliaceum</i>	12	32
Morningglories	<i>Ipomoea</i> spp.	2	16
		4	32
Mustard	<i>Chorispora tenella</i> <i>Sisymbrium altissimum</i> <i>Brassica kaber</i>	6	12
		6	12
		6	24

continued

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Table 1. Weeds and Weed Sizes Controlled by V-10097 (continued)

Common Name	Scientific Name	Maximum Height/Length Inches	Rate Per Acre (Fl. Oz.)
Nightshade			
Black	<i>Solanum nigrum</i>	12	32
Eastern black	<i>Solanum ptycanthum</i>	12	32
Hairy	<i>Solanum sarrachoides</i>	12	32
Oat, wild	<i>Avena fatua</i>	12	16
Panicum			
Browntop	<i>Panicum fasciculatum</i>	12	32
Fall	<i>Panicum dichotomiflorum</i>	12	16
Texas	<i>Panicum texanum</i>	12	16
Pennycress, field	<i>Thlaspi arvense</i>	6 12	16 32
Pepperweed, Virginia	<i>Lepidium virginicum</i>	18	32
Pigweed	<i>Amaranthus</i> spp.	24	32
Redroot	<i>Amaranthus retroflexus</i>	12	16
Smooth	<i>Amaranthus hybridus</i>	12	16
Purslane, common	<i>Portulaca oleracea</i>	6	32
Pusley, Florida	<i>Richardia scabra</i>	12	32
Ragweed			
Common	<i>Ambrosia artemisiifolia</i>	6	48
Giant	<i>Ambrosia trifida</i>	6	48
Rice, Red	<i>Oryza sativa</i>	4	32
Rocket, yellow	<i>Barbarea vulgaris</i>	6	24
Rye	<i>Secale cereale</i>	12	12
Ryegrass			
Italian	<i>Lolium multiflorum</i>	6	16
Perennial	<i>Lolium perenne</i>	6	32
Sandbur, field	<i>Cenchrus</i> spp.	12	12
Shattercane	<i>Sorghum bicolor</i>	12	32
Shepherd's-purse	<i>Capsella bursa-pastoris</i>	6	16
Sicklepod	<i>Cassia obtusifolia</i>	3 to 4 6	24 16
Sida, prickly (teaweed)	<i>Sida spinosa</i>	4	32
Signalgrass, broadleaf	<i>Brachiaria platyphylla</i>	4	24
Smartweed, ladythumb	<i>Polygonum persicaria</i>	6	48
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	6	48
Sowthistle, annual	<i>Sonchus oleraceus</i>	6	48
Spanishneedles	<i>Bidens bipinnata</i>	8	48
Speedwell, purslane	<i>Veronica peregrina</i>	12	48

continued

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Table 1. Weeds and Weed Sizes Controlled by V-10097 (continued)

Common Name	Scientific Name	Maximum Height/Length Inches	Rate Per Acre (Fl. Oz.)
Sprangletop	<i>Leptochloa</i> spp.	6	32
Spurge	<i>Euphorbia</i> spp.	6	16
Annual		7 to 12	24
Prostrate		20	32
Spotted		20	32
Spurry, umbrella	<i>Holosteum, umbellatum</i>	6	24
Stinkgrass	<i>Eragrostic cilianensis</i>	12	12
Sunflower, common	<i>Helianthus annuus</i>	6	48
Tansymustard, western	<i>Descurainia pinnata</i>	6	12
Thistle, Russian	<i>Salsola iberica</i>	6	48
Velvetleaf	<i>Abutilon theophrasti</i>	6	48
Waterhemp	<i>Amaranthus rudis</i>	12	32
Common			
Tall	<i>Amaranthus tuberculatus</i>	12	32
Wheat	<i>Triticum aestivum</i>	18	12
Common			
Common (overwintered)	<i>Triticum aestivum</i>	12	32
Witchgrass	<i>Panicum capillare</i>	12	16

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PERENNIAL WEEDS CONTROLLED BY V-10097

Best results are obtained when perennial weeds are treated after they reach the reproductive stage of growth (seedhead initiation in grasses and bud formation in broadleaves). For non-flowering plants, best results are obtained when the plants reach a mature stage of growth. In many situations, treatments are required prior to these growth stages. Under these conditions, use the higher application rate within the recommended range.

Ensure thorough coverage when using spray-to-wet treatments using hand held equipment. When using hand held equipment for low volume directed spot treatments, apply a 5 to 10 percent solution of V-10097.

Table 2. Perennial Weeds Controlled by V-10097

Common Name	Scientific Name	Rate Per Acre (Qt.)	Hand-Held % Solution
Alligatorweed*	<i>Alternanthera philoxeroides</i>	4	1½
Artichoke, Jerusalem	<i>Helianthus tuberosus</i>	3-5	2
Bahiagrass	<i>Paspalum notatum</i>	3-5	2
Bermudagrass	<i>Cynodon dactylon</i>	5	2
Bindweed, field	<i>Convolvulus arvensis</i>	4-5	2
Bluegrass, Kentucky	<i>Poa pratensis</i>	2	2
Blueweed, Texas	<i>Helianthus ciliaris</i>	4-5	2
Brackenfern	<i>Pteridium</i> spp.	3-4	1-1½
Brome, smooth	<i>Bromus inermis</i>	2	2
Bursage, woollyleaf	<i>Ambrosia grayi</i>	—	2
Canarygrass, reed	<i>Phalaris arundinacea</i>	2-3	2
Cattail	<i>Typha</i> spp.	3-5	2
Clover	<i>Trifolium</i> spp.	3-5	2
Red	<i>Trifolium pratense</i>	3-5	2
White	<i>Trifolium repens</i>	3-5	2
Cogongrass	<i>Imperata cylindrica</i>	3-5	2
Dallisgrass	<i>Paspalum dilatatum</i>	3-5	2
Dandelion	<i>Taraxacum officinale</i>	3-5	2
Dock, curly	<i>Rumex crispus</i>	3-5	2
Dogbane, hemp	<i>Apocynum cannabinum</i>	4	2
Fennel	<i>Foeniculum vulgare</i>	2-4	1-2
Fescue (except tall)	<i>Fetuca</i> spp.	3-5	2
Fescue, tall	<i>Festuca arundinacea</i>	1-3	2
Guineagrass	<i>Panicum maximum</i>	3	1
Horsenettle	<i>Solanum carolinense</i>	3-5	2
Horseradish	<i>Armoracia rusticana</i>	4	2
Ice-plant	<i>Mesembryanthemum crystallinum</i>	2	1½-2
Ivy, German	<i>Senecio mikanioides</i>	2-4	1-2
Johnsongrass	<i>Sorghum halepense</i>	2-3	1
Kikuyugrass	<i>Pennisetum clandestinum</i>	2-3	2
Knapweed	<i>Centaurea</i> spp.	4	2
Lantana, large leaf	<i>Lantana camara</i>	—	1-1½
Lespedeza	<i>Lespedeza</i> spp.	3-5	2
Milkweed	<i>Asclepias</i> spp.	3	2
Muhly, wirestem	<i>Muhlenbergia frondosa</i>	2	2
Mullein, common	<i>Verbascum thapsus</i>	3-5	2
Napiergrass	<i>Pennisetum purpureum</i>	3-5	2

continued

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Table 2. Perennial Weeds Controlled by V-10097 (continued)

Common Name	Scientific Name	Rate Per Acre (Qt.)	Hand-Held % Solution
Nightshade, silverleaf	<i>Solanum elaeagnifolium</i>	2	2
Nutsedge	<i>Cyperus</i> spp.	3	1-2
Purple	<i>Cyperus rotundus</i>	3	1-2
Yellow	<i>Cyperus esculentus</i>	3	1-2
Orchardgrass	<i>Dactylis glomerata</i>	2	2
Pampasgrass, purple	<i>Cortaderia jubata</i>	3-5	1½-2
Paragrass	<i>Brachiaria mutica</i>	3-5	2
Pepperweed, perennial	<i>Lepidium latifolium</i>	4	2
Poison-hemlock	<i>Conium maculatum</i>	2-4	1-2
Quackgrass	<i>Elytrigia repens</i>	2-3	2
Redvine*	<i>Brunnichia ovata</i>	2	2
Reed, giant	<i>Arundo donax</i>	4-5	2
Ryegrass, perennial	<i>Lolium perenne</i>	2-3	1
Smartweed, swamp	<i>Polygonum coccineum</i>	3-5	2
Spurge, leafy*	<i>Euphorbia esula</i>	—	2
Thistle			
Artichoke	<i>Cynara cardunculus</i>	2-3	1-2
Canada	<i>Cirsium arvense</i>	2-3	2
Timothy	<i>Phleum pratense</i>	2-3	2
Torpedograss*	<i>Panicum repens</i>	4-5	2
Trumpetcreeper*	<i>Campsis radicans</i>	2-3	2
Vaseygrass	<i>Paspalum urvillei</i>	3-5	2
Velvetgrass	<i>Holcus</i> spp.	3-5	2
Wheatgrass, western	<i>Pascopyrum smithii</i>	2-3	2

*Partial Control

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WOODY BRUSH AND TREES CONTROLLED BY V-10097

Apply this product after full leaf expansion, unless otherwise directed. Use the higher rate for larger plants and/or dense areas of growth. For control of vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation; however, in arid areas, best results are obtained when applications are made in the spring to early summer when brush species are at high moisture content. Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 to 10 days after application before tillage, mowing or removal. Repeat treatments may be needed to control plants regenerating from underground parts or seed. Reduced performance may result if fall treatments are made following a frost.

Ensure thorough coverage when using spray-to-wet treatments using hand held equipment. When using hand held equipment for low volume directed spray spot treatments, apply a 5 to 10 percent solution of V-10097.

Table 3. Woody Brush and Trees Controlled by V-10097

Common Name	Scientific Name	Rate Per Acre (Qt.)	Hand-Held % Solution
Alder	<i>Alnus</i> spp.	3-4	1-1½
Ash*	<i>Fraxinus</i> spp.	2-5	1-2
Aspen, quaking	<i>Populus tremuloides</i>	2-3	1-1½
Bearclover*	<i>Chamaebatia foliolosa</i>	2-5	1-2
Birch	<i>Betula</i> spp.	2	1
Blackberry	<i>Rubus</i> spp.	3-4	1-1½
Blackgum	<i>Nyssa sylvatica</i>	2-5	1-2
Broom	<i>Cytisus</i> spp.	2-5	1½-2
French	<i>Cytisus monspessulanus</i>	2-5	1½-2
Scotch	<i>Cytisus scoparius</i>	2-5	1½-2
Catclaw*	<i>Acacia greggi</i>	—	1-1½
Ceanothus*	<i>Ceanothus</i> spp.	2-5	1-2
Chamise*	<i>Adenostoma fasciculatum</i>	2-5	1
Cherry	<i>Prunus</i> spp.	2-3	1-1½
Bitter	<i>Prunus emarginata</i>	2-3	1-1½
Black	<i>Prunus serotina</i>	2-3	1-1½
Pin	<i>Prunus Pensylvanica</i>	2-3	1-1½
Coyotebrush	<i>Baccharis pilularis</i>	3-4	1½-2
Dogwood*	<i>Cornus</i> spp.	2-5	1-2
Elderberry	<i>Sambucus</i> spp.	2	1
Elm*	<i>Ulmus</i> spp.	2-5	1-2
Eucalyptus	<i>Eucalyptus</i> spp.	—	2
Gorse*	<i>Ulex europaeus</i>	2-5	1-2
Hawthorn	<i>Crataegus</i> spp.	2-3	1-1½
Hazel	<i>Corylus</i> spp.	2	1
Hickory*	<i>Carya</i> spp.	2-5	1-2
Honeysuckle	<i>Lonicera</i> spp.	3-4	1-1½
Hornbeam, American*	<i>Carpinus caroliniana</i>	2-5	1-2
Kudzu	<i>Pueraria lobata</i>	4	2
Locust, black*	<i>Robinia pseudoacacia</i>	2-4	1-2
Manzanita*	<i>Arctostaphylos</i> spp.	2-5	1-2

continued

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Table 3. Woody Brush and Trees Controlled by V-10097 (continued)

Common Name	Scientific Name	Rate (Qt/A)	Hand-Held % Solution
Maple			
Red	<i>Acer rubrum</i>	2-4	1-1½
Sugar	<i>Acer saccharum</i>	—	1-1½
Monkeyflower*	<i>Mimulus guttatus</i>	2-4	1-2
Oak			
Black*	<i>Quercus velutina</i>	2-4	1-2
Northern pin	<i>Quercus palustris</i>	2-4	1-1½
Northern Red	<i>Quercus rubra</i>	2-4	1-1½
Post	<i>Quercus stellata</i>	3-4	1-1½
Southern red	<i>Quercus falcata</i>	2-3	1-1½
White*	<i>Quercus alba</i>	2-4	1-1½
Olive, Russian	<i>Elaeagnus angustifolia</i>	2-5	1-2
Peppertree, Brazilian*	<i>Schinus terebinthifolius</i>	2-5	1-2
Persimmon*	<i>Diospyros</i> spp.	2-5	1-2
Pine	<i>Pinus</i> spp.	2-5	1-2
Poison-ivy	<i>Toxicodendron radicans</i>	4-5	2
Poison-oak	<i>Toxicodendron toxicarium</i>	4-5	2
Redbud, eastern	<i>Cercis canadensis</i>	2-5	1-2
Rose, multiflora	<i>Rosa multiflora</i>	2	1
Sage	<i>Salvia</i> spp.	2-4	1
Black	<i>Salvia mellifera</i>	2-4	1
White	<i>Salvia apiana</i>	2-4	1
Sagebrush, coastal	<i>Artemisia californica</i>	2-4	1
Salmonberry	<i>Rubus spectabilis</i>	2	1
Saltcedar*	<i>Tamarix</i> spp.	2-5	1-2
Sassafras*	<i>Sassafras albidum</i>	2-5	1-2
Sourwood*	<i>Oxydendrum arboreum</i>	2-5	1-2
Sumac*	<i>Rhus</i> spp.	2-4	1-2
Sweetgum	<i>Liquidambar styraciflua</i>	2-3	1-1½
Swordfern, western*	<i>Polystichum munitum</i>	2-5	1-2
Tallowtree, Chinese	<i>Sapium sebiferum</i>	—	1
Thimbleberry, western	<i>Rubus parviflorus</i>	2	1
Tobacco tree*	<i>Nicotiana glauca</i>	2-4	1-2
Trumpetcreeper	<i>Campsis radicans</i>	2-3	1-1½
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	2-5	1-2
Waxmyrtle, southern*	<i>Myrica cerifera</i>	2-5	1-2
Willow	<i>Salix</i> spp.	3	1
Yellow-poplar	<i>Liriodendron tulipifera</i>	2-5	1-2

*Partial Control

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RESISTANCE MANAGEMENT

Any weed population may contain or develop plants naturally resistant to herbicides in various mode of action classes. Resistant biotypes may eventually dominate the weed population if the same class of chemistry/mode of action herbicides are used repeatedly in the same field or in successive years. These resistant biotypes may not be adequately controlled by herbicides in a mode of action class for which resistance has developed. A gradual or total loss of weed control may occur over time. Other resistance mechanisms that are not linked to site of action, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

TO DELAY HERBICIDE RESISTANCE

- Avoid the use of herbicides that have a similar target site mode of action in consecutive years.
- Herbicide use should be based on an Integrated Pest Management (IPM) program that includes scouting, record keeping, and consideration of cultivation practices, water management, weed free crop seed, crop rotation, and other chemical or cultural control practices.
- Monitor treated weed population for resistance development and report suspected resistance.
- Contact your local extension or crop expert (advisor) for any additional pesticide resistance management and/or IPM recommendations for specific crops and weed biotypes.
- For further information contact Valent U.S.A. Corporation at the following toll free number 1-800-682-5368.

DIRECTIONS FOR BURNDOWN USE

V-10097, at 32 to 64 fl. oz. per acre, can be applied to burndown existing vegetation prior to planting or immediately after planting field corn or soybeans. A minimum of 30 days between application and planting must occur when planting cotton, peanut, sorghum, sugarcane, tobacco, and sunflower. Refer to Table 1 for weeds controlled and recommended use rates.

DIRECTIONS FOR USE IN ROUNDUP READY FIELD CORN

Do not use V-10097 on popcorn or sweet corn.

USE RESTRICTIONS FOR V-10097 APPLIED TO ROUNDUP READY FIELD CORN

- Apply only to field corn legally designated as "Roundup Ready".
- Do not apply V-10097 to field corn before the 2-leaf or after the 8-leaf stage.
- Do not apply more than 32 fl. oz./A of V-10097 in a single application or more than a total of 64 fl. oz./A to field corn during a single growing season.
- Do not make more than two postemergence applications per acre per season.
- Do not make a sequential application within 14 days of the first application.
- Do not graze animals on green forage or use as feed fewer than 28 days after V-10097 application.

GENERAL INFORMATION

V-10097 can be used on Roundup Ready field corn grown for commercial seed production. However, do not apply V-10097 to seed corn without first verifying with your seed corn supplier the V-10097 selectivity on your inbred line. This precaution will help avoid potential injury on sensitive varieties. Use on inbred lines or other genetic material used in a breeding program is done at the sole risk of the user.

TIMING TO ROUNDUP READY FIELD CORN

V-10097 may be applied to Roundup Ready field corn from the 2-leaf through the 8-leaf stage. Determine the leaf stage of corn by counting only those leaves with leaf collars visible. A temporary crop response may be observed following a postemergence broadcast application of V-10097. Corn quickly outgrows all initial herbicide effects. When V-10097 is used as directed, Roundup Ready corn yields will not be adversely affected.

TIMING TO WEEDS

Identify weed species as early as possible. Recommended rates, weed species, and maximum weed heights for effective control with V-10097 as a stand-alone broadcast or drop-nozzle application are indicated in Table 1.

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DROP-NOZZLE APPLICATIONS

Drop-nozzle application should be made after corn has reached a sufficient height for the spray to be directed beneath the corn leaves or when corn leaves prevent proper spray coverage of weeds. Do not apply V-10097 directly into the corn whorl when making a post-directed application.

APPLICATION INFORMATION FOR TANK MIXES IN ROUNDUP READY FIELD CORN

To control additional weeds in Roundup Ready field corn, V-10097 may be tank mixed with approved herbicides. Approved tank mix herbicide is indicated in Table 4. For best results, V-10097 tank mix applications should be made to actively growing weeds. Do not apply V-10097 tank mixes during periods when corn and/or weeds are under stress or when conditions do not favor active weed growth. For maximum control, weeds must receive thorough spray coverage.

Crop response from V-10097 tank mix applications may be greater than that occurring from V-10097 applied alone. Crop response from V-10097 is temporary and does not adversely affect crop yield when applied according to the label use directions.

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-10097, 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.

Table 4. V-10097 Tank Mix Combination for use in Roundup Ready Field Corn

Atrazine

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DIRECTIONS FOR USE IN ROUNDUP READY SOYBEANS

USE RESTRICTIONS FOR V-10097 APPLIED TO ROUNDUP READY SOYBEANS

- Apply only to soybeans legally designated as "Roundup Ready".
- Do not apply more than 96 fl. oz./A of V-10097 in a single application or more than a total of 96 fl. oz./A to soybeans during a single growing season.
- Do not make more than two postemergence applications per acre per season.
- Do not make a sequential application within 14 days of the first application.
- Do not graze treated fields or harvest for forage or hay.
- Do not apply V-10097 within 60 days of harvest.

TIMING TO ROUNDUP READY SOYBEANS

V-10097 may be applied to soybeans until 60 days prior to harvest. A temporary crop response may be observed following a postemergence broadcast application of V-10097. Soybean leaves that are open at the time of application may show some burn or spotting. Soybeans quickly outgrow all initial herbicide effects. When V-10097 is used as directed, soybean yields will not be adversely affected.

TIMING TO WEEDS

Identify weed species as early as possible. Recommended rates, weed species, and maximum weed heights for effective control with V-10097 as a stand-alone broadcast application are indicated in Table 1.

APPLICATION INFORMATION FOR TANK MIXES IN ROUNDUP READY SOYBEANS

To control additional weeds in soybeans, V-10097 may be tank mixed with approved herbicides. Approved tank mix herbicides are indicated in Table 5. For best results, V-10097 tank mix applications should be made to actively growing weeds.

Do not apply V-10097 tank mixes during periods when soybeans and/or weeds are under stress or when conditions do not favor active weed growth. For maximum control, weeds must receive thorough spray coverage.

Crop response from V-10097 tank mix applications may be greater than that occurring from V-10097 applied alone. Crop response from V-10097 is temporary and does not adversely affect crop yield when applied following label use directions.

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-10097, 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.

Table 5. V-10097 Tank Mix Combinations for Use in Roundup Ready Soybeans

Classic	Cobra®	FirstRate®	Select® 2 EC
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DIRECTIONS FOR USE IN NON-AGRICULTURAL AREAS

APPLICATION EQUIPMENT AND TECHNIQUES

GROUND BROADCAST EQUIPMENT

Using conventional boom equipment: V-10097 applications may be made with conventional ground broadcast boom equipment. Apply V-10097 at 32 to 64 oz. per acre in a broadcast application with a spray volume of 3 to 40 gals. per acre. See the "Weeds Controlled by V-10097" section of this label for a list of annual and perennial weeds controlled. As density of vegetation increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select correct nozzles to avoid spraying a fine mist.

Forestry and Utility Rights-of-Way Sites: V-10097 is recommended for broadcast applications using suitable ground equipment in forestry sites, utility sites, and utility rights-of-way. Apply the V-10097 at 32 to 64 oz. per acre in a spray volume of 10 to 60 gals. per acre.

Selective Equipment

V-10097 may be applied through shielded sprayers, hooded sprayers, or wiper application equipment. This equipment may be used to selectively control undesirable vegetation without harming desirable vegetation.

Shielded sprayers direct the herbicide onto weeds while shielding desirable vegetation from the spray solution. **Avoid contact of herbicide with desirable vegetation as serious injury or plant death is likely to occur.**

Wiper applicators physically wipe V-10097 directly onto undesirable vegetation. Do not allow wiper to come into contact with desirable vegetation. Use a 33 to 100 percent solution of V-10097, diluted in water, for wiper applications. Use a 33 percent solution for wick or gravity feed systems. Use higher concentrations in pressurized systems that are capable of handling thicker, more viscous solutions. It is recommended that non-ionic surfactant be added to the solution at a rate of 10 percent by volume.

HAND-HELD AND HIGH VOLUME EQUIPMENT

For control of weeds listed in this label using knapsack or backpack sprayers or high volume equipment such as high pressure handguns or other high pressure nozzle arrangements.

Apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only.

High Volume Sprays: Prepare a ¼ to 2 percent solution of V-10097 in water, add a non-ionic surfactant and apply to foliage of vegetation to be controlled. Applications should be made on a spray-to-wet basis. Spray coverage should be uniform and complete. Use ¼ percent solution for control of annual weeds less than 6" in height or runner length. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1 percent solution. Use higher rates for harder to control annual and perennial weeds. Use a 2 percent solution on harder to control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

Low Volume Directed Sprays: V-10097 may be used as a 5 to 10 percent solution in low-volume directed sprays for spot treatment of trees and brush. Treatment to areas of undesirable trees or brush present in low density is more effective. Ensure good coverage of undesirable plant foliage. Spray coverage should be uniform with at least 50% of the foliage contacted. Coverage of the top one-half of the plant is important for best results. To ensure adequate spray coverage, spray both sides of large or tall woody brush and trees, when foliage is thick and dense, or where there are multiple sprouts.

Prepare the desired volume of spray solution by mixing the amount of this product in water, shown in the following table:

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Spray Solution

Desired Volume	Amount of V-10097							
	¾%	1%	1¼%	1½%	2%	5%	8%	10%
1 gal.	1 oz.	1 oz.	1 oz.	2 oz.	2 oz.	6½ oz.	10¼ oz.	12¾ oz.
25 gal.	1½ pt.	1 qt.	1¼ qt.	1½ qt.	2 qt.	5 qt.	2 gal.	2½ gal.
100 gal.	3 qt.	1 gal.	1¼ gal.	1½ gal.	2 gal.	5 gal.	8 gal.	10 gal.

Note: Two tablespoons = 1 fluid ounce

APPLICATION SITES

General Non-Crop and Industrial Sites

Apply V-10097 as directed using equipment described above. V-10097 may be used to control weeds listed in Table 1 in and around the following terrestrial non-crop sites:

- Airports
- Apartment Complexes
- Christmas Tree Farms
- Ditch Banks
- Fence Rows
- Golf Courses
- Habitat Restoration and Management Areas
- Highways and Roadsides
- Industrial Plant Sites
- Lumberyards
- Office Complexes
- Ornamental Nurseries
- Parking Areas
- Parks
- Petroleum Tank Farms
- Pipeline, Power, Telephone & Utility Rights-of-Way
- Pumping Installations
- Railroads
- Recreational Areas
- Residential Areas
- Schools
- Sod Farms
- Storage Areas
- Similar Sites
- Warehouse Areas

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General Weed Control, Trim and Edge and Bare Ground

V-10097 may be used in general non-crop areas. It may be applied with any application equipment described on this label. This product may be used to trim and edge around objects in non-crop sites, for spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. V-10097 may be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects. Repeated applications may be used, as weeds emerge, to maintain bare ground.

Dormant Turfgrass

V-10097 may be used to control or suppress many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turf. Treat only when turfgrass is dormant and prior to spring greenup. Apply 8 to 32 fl. oz. of V-10097 in 10 to 40 gals. of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. Treatments in excess of 16 fl. oz. per acre may result in injury or delayed greenup in highly maintained areas, such as golf courses and lawns.

ORNAMENTAL AND PLANT NURSERIES, CHRISTMAS TREES

Post Directed, Trim and Edge

V-10097 may be used as a post directed spray around established woody ornamental plants, trees and shrubs such as arborvitae, azalea, barberry, birch, boxwood, crape myrtle, crabapple, euonymus, fir, douglas fir, hollies, lilac, magnolia, maple, oak, privet, pine, pittosporum, rose, viburnum, spruce, and yew. V-10097 may also be used as a post directed spray around non-bearing fruit and nut trees and non-bearing vines such as apple, cherry, citrus, grape, olive, peach, pear, prune, stone fruit, and tree nuts. Use V-10097 to trim and edge around trees, buildings, sidewalks and roads, potted plants, and other objects in a nursery setting. Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material.

Important: Do not apply directly to or over ornamental plants, shrubs, or trees. Do not allow spray drift to contact desirable plants. Apply only as a spray directed to targeted weeds and away from green plant foliage.

Site Preparation

V-10097 may be used prior to planting any ornamental, nursery, or Christmas tree species.

Greenhouse/Shadehouse

V-10097 may be used to control weeds growing in and around greenhouses, lathhouses, and shadehouses. Desirable vegetation must not be present during application and air circulations fans must be turned off.

HABITAT RESTORATION AND MANAGEMENT

V-10097 is recommended for the restoration and/or maintenance of native habitat and in wildlife management areas.

Habitat Restoration and Maintenance Areas: When applied as directed, exotic and other undesirable vegetation may be controlled in habitat management areas. Applications may be made to allow recovery of native plant species, to open up water to attract waterfowl, and for similar broad-spectrum vegetation control requirements in habitat management areas. Spot treatments may be made to selectively remove unwanted vegetation.

Wildlife Food Plots: V-10097 may be used to selectively remove unwanted vegetation prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to regrow in the treated area. If tillage is required, wait seven days after application before tilling.

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CUT STUMP APPLICATION

Cut stump treatments may be made on any site listed on this label. Apply V-10097 to control woody vegetation by treating freshly cut stumps of trees and resprouts. Cut vegetation close to the ground. Apply V-10097 in a 50 to 100 percent solution to the cut surface immediately after cutting, ensuring that the entire cambium is treated. Delay in treatment after cutting will result in reduced performance. For best results, cut and treat trees that are actively growing. When used according to directions, V-10097 will control or partially control most woody brush and tree species including the following:

- Alder
- Eucalyptus
- Madrone
- Oak
- Reed, giant
- Saltcedar
- Sweetgum
- Tan oak
- Willow

Do not make cut stump applications when the roots of desirable woody brush or trees may be grafted to the roots of the cut stump. Injury resulting from root grafting is likely to occur in adjacent woody brush or trees.

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STORAGE AND DISPOSAL

PROHIBITIONS

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

STORAGE

Store in a cool dry place.

Keep pesticide in original container.

Keep container closed when not in use.

Do not put concentrate or dilute into food or drink containers.

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 1-800-892-0099.

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

Triple rinse (or equivalent). Do not reuse container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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