

59639-99

4/12/2001

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg.
Number:

Date of Issuance:

59639-99

APR 12 2001

NOTICE OF PESTICIDE:

X Registration
____ Reregistration

Term of Issuance:

Conditional

Name of Pesticide Product:

Valor WDG Herbicide

under FIFRA, as amended

Name and Address of Registrant (include ZIP Code):

Valent U.S.A. Corporation
1333 N. California Blvd., Suite 600
Walnut Creek, CA 94596

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 sec. 3(c)(7)(C) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. The statement, "This product is toxic to non-target plants", must be stickered onto ALL packaged product currently being held, before you release the product for shipment.
3. Make the following label changes at your next label printing for this product:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 59639-99".
 - b. Add the statement "Causes moderate eye irritation" to the Precautionary Statements.

Signature of Approving Official:

/s/

Date:

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- c. 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."
 - d. Within the list of PPE for early re-entry in the Agricultural Use Requirements box, revise the requirement for "waterproof gloves" to a requirement for "chemical-resistant gloves made of any waterproof material."
 - e. Revise Environmental Hazards section to read as follows:

"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."
 - f. Add a drift advisory to read "AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Where states have more stringent regulations, they should be observed."
4. Submit the following data within two (2) years of the date of this notice:
- a. A more specific confirmatory analytical method for plant commodities (e.g., using MS detection) is required. Alternatively, an interference study showing whether other pesticides registered on soybeans and peanuts interfere with the analysis of flumioxazin may be submitted.
 - b. Submit two aqueous photolysis studies (Guideline 161-2). One study should use the uniformly phenyl ring-labeled [^{14}C]flumioxazin whereas the second study should use the tetrahydrophthalimido ring-labeled [1,2- ^{14}C]flumioxazin. These studies are required because major degradates comprising $\geq 10\%$ of the applied were not properly identified in the submitted studies.

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- c. Submit two anaerobic soil/aqueous metabolism studies (Guideline 162-2). One study should use the uniformly phenyl ring-labeled [¹⁴C]flumioxazin whereas the second study should use the tetrahydrophthalimido ring-labeled [1,2-¹⁴C]flumioxazin. These studies are also required because major degradates comprising ≥10% of the applied were not properly identified in the submitted studies.
- d. Submit two field dissipation studies (Guideline 164-1). One study should be conducted at the representative soybean growing area whereas the other study should be conducted at the representative peanut growing area. Major degradates identified in the fate laboratory studies must be included in the analysis.

5. Submit one copy of the revised final printed label for the record 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 sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosure



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VALOR™ WDG Herbicide

FOR CONTROL OF CERTAIN WEEDS IN PEANUTS AND SOYBEANS

Active Ingredient	By Wt.
Flumioxazin (2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-indole-1,3(2H)-dione)	51.0%
Other Ingredients	49.0%
Total	100.0%

VALOR™ WDG Herbicide (VALOR) is a water dispersible granule containing 51% active ingredient.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

NET WEIGHT ___ POUNDS

ACCEPTED
with COMMENTS
In EPA Letter Dated

APR 12 2001

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

59639-89

EPA REC'D 2-21-01

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

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

FIRST AID

- | | |
|----------------------|---|
| 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 on skin: | <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 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.• Call a poison control center or doctor for 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 the 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 and 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.

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ENVIRONMENTAL HAZARDS:

This product is toxic to 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. 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, waterproof gloves, shoes plus socks.

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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

Do not apply this product through any type of irrigation system.

Do not apply by air

VALOR provides preemergence control of susceptible weeds in peanuts and soybeans. VALOR can also be used as part of a burndown program in peanuts and soybeans. VALOR can be used as part of early preplant burndown programs in cotton, field corn, rice, sorghum, sunflowers, and wheat when applied greater than 30 days prior to planting.

GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply this product when weather conditions favor spray drift from treated areas.
- Do not graze treated fields or feed treated forage or hay to livestock.
- Do not incorporate into the soil after application.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

PREEMERGENCE APPLICATIONS

Important: Crop injury may occur from applications made to poorly drained soils and/or applications made 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. Treated soil that is splashed onto newly emerged crops may result in temporary crop spotting.

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

When adequate moisture is not received after soil-applied treatments of VALOR, weed control may be improved by utilizing shallow cultivation. If weeds begin to emerge, irrigate (1/4" 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 VALOR and should be avoided.

BURNDOWN APPLICATIONS

For best results, VALOR should be applied as part of a burndown program to actively growing weeds. Applying VALOR under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply VALOR 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. VALOR is most effective when applied under warm sunny conditions.

VALOR is rainfast one hour after application. Applications should not be made if rain is expected within one hour of application or efficacy may be reduced.

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SOIL CHARACTERISTICS

Application of VALOR 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

PREEMERGENCE APPLICATIONS (INCLUDING APPLICATIONS AS PART OF A BURNDOWN PROGRAM)

Based upon soil characteristics (organic matter content and texture), the most difficult-to-control weed species being targeted, and the crop being grown, select the proper VALOR dosage from Table 1 when applying in peanuts or soybeans. Table 2 lists weeds that are suppressed by VALOR rates used in peanuts and soybeans.

CARRIER VOLUME AND SPRAY PRESSURE

PREEMERGENCE APPLICATIONS

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

BURNDOWN APPLICATIONS

To ensure thorough coverage in burndown applications, use 15 to 30 gals. 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.

ADDITIVES

BURNDOWN APPLICATIONS

Postemergence control of weeds from VALOR 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 VALOR 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 VALOR WDG HERBICIDE

When using VALOR and an adjuvant, such as in stale seed bed or reduced tillage situations, a jar test should be performed before mixing commercial quantities of VALOR, when using VALOR 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 1 gm of VALOR (approximately 275 to 325 granules) to the quart jar for every 3 ounces of VALOR/A being applied (1 gram if 3 oz./A is the desired VALOR rate, 4 grams if 12 oz./A is the desired VALOR rate), 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 tablespoon 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.

SPRAYER PREPARATION AND CLEANUP

Before applying VALOR, 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 remains in the sprayer. Some pesticides, including the sulfonylurea 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 VALOR.

After VALOR 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 gallon of 3% household ammonia for every 100 gallons 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.

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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 VALOR. Agitation should create a rippling or rolling action on the water surface. If tank mixing VALOR 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. VALOR 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 VALOR, and VALOR 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 VALOR per acre.

CROP FAILURE

If the crop treated with VALOR is lost due to a catastrophe, such as hail or other forms of inclement weather, soybeans or peanuts can be replanted immediately, provided no more than 3 ounces/A of VALOR has been used on the lost crop. Cotton, field corn, rice, sorghum, sunflowers, tobacco, and wheat can be planted 30 days after a VALOR application, provided no more than 2 ounces/A of VALOR had been used on the lost crop.

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ROTATIONAL RESTRICTIONS

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

VALOR RATE	CROP	ROTATION INTERVAL
2 oz./A or less	Peanut, and Soybean	Immediately
	Cotton, Field Corn, Rice, Sorghum, Sunflower, Tobacco, and Wheat	30 days
	Barley, Dry Bean, Rye, Sweet Corn	4 Months
	Alfalfa, Canola, Clover, Oats, Sugarbeet, and all other crops not listed	12 Months ¹
up to 3 oz./A	Peanut, and Soybean	Immediately
	Cotton, Field Corn, Rice, Sorghum, Sunflower, Tobacco, and Wheat	2 Months
	Barley, Dry Bean, Rye, Sweet Corn	4 Months
	Alfalfa, Canola, Clover, Oats, Sugarbeet, and all other crops not listed.	12 Months ¹

¹ Successful soil bioassay must be performed prior to planting alfalfa, canola, sugarbeets and other crops not listed.

DIRECTIONS FOR USE IN BURNDOWN PROGRAMS

VALOR can be used at 1 to 2 oz./A with glyphosate, paraquat, sulfosate, or 2,4-D containing products to enhance the speed of burndown and increase weed spectrum. A minimum of 30 days must pass between VALOR application and planting of cotton, field corn, rice, sorghum, sunflowers, tobacco, or wheat.

VALOR can be used at 1 to 3 oz./A in soybean and peanut burndown programs. See "DIRECTIONS FOR USE IN SOYBEANS", "DIRECTIONS FOR USE IN PEANUTS" for more information.

RECOMMENDATIONS FOR WEED CONTROL IN PEANUTS AND SOYBEANS

Table 1 lists broadleaf weeds controlled by preemergence application of VALOR in peanuts and soybeans. Table 2 list weeds suppressed by preemergence application of VALOR in peanuts and soybeans.

Table 1. Broadleaf Weeds Controlled by Preemergence Application of VALOR in Peanuts and Soybeans

BROADLEAF WEED SPECIES				
SECTION A				
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR RATE
Carpetweed	<i>Mollugo verticillata</i>	Up to 5%	All Soil Types	3.0 oz./A (Peanuts) ⁽²⁾ 2.0 oz./A (Soybeans)
Dandelion	<i>Taraxacum officinale</i>			
Eclipta	<i>Eclipta prostrata</i>			
Florida Pusley	<i>Richardia scabra</i>			
Kochia	<i>Kochia scoparia</i>			
Lambsquarters, Common				
Little Mallow	<i>Chenopodium album</i>			
Marestail/Horseweed	<i>Malva parviflora</i>			
Nightshades	<i>Conyza canadensis</i>			
Black				
Eastern Black	<i>Solanum nigrum</i>			
Pigweeds	<i>Solanum ptycanthum</i>			
Redroot				
Smooth	<i>Amaranthus retroflexus</i>			
Spiny Amaranth	<i>Amaranthus hybridus</i>			
Tumble	<i>Amaranthus spinosus</i>			
Prickly Sida (Teaweed)	<i>Amaranthus albus</i>			
Puncturevine	<i>Sida spinosa</i>			
Purslane, Common	<i>Tribulus terrestris</i>			
Redmaids	<i>Portulaca oleracea</i>			
	<i>Calandrinia ciliata</i> var. <i>menziessi</i>			
Shepherd's-purse				
Smallflower	<i>Capsella bursa-pastoris</i>			
Morningglory				
Spotted Spurge	<i>Jacquemontia tamnifolia</i>			
Venice Mallow	<i>Euphorbia maculata</i>			
	<i>Hibiscus trionum</i>			

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SECTION B				
All weeds listed in Section A plus:				
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR RATE
Bristly Starbur Coffee Senna Common Ragweed Copperleaf, hophornbean Golden Crownbeard Florida Beggarweed Hairy Indigo Hemp Sesbania Jimsonweed Morningglories ⁽¹⁾ Entireleaf	<i>Acanthospermum hispidum</i> <i>Cassia occidentalis</i> <i>Ambrosia artemisiifolia</i> <i>Acalypha ostryifolia</i> <i>Verbesina encelioides</i> <i>Desmodium tortuosum</i> <i>Indigofera hirsuta</i> <i>Sesbania exaltata</i> <i>Datura stramonium</i>	< 3%	All Soil Types	3.0 oz./A Peanuts ⁽²⁾ 2.5 oz./A Soybeans
Ivyleaf Red/Scarlet Tall Palmer Amaranth Spurred Anoda Tropic Croton Waterhemp Common Tall Wild Poinsettia	<i>Ipomoea hederacea</i> <i>var. integruscula</i> <i>Ipomoea hederacea</i> <i>Ipomoea coccinea</i> <i>Ipomoea purpurea</i> <i>Amaranthus palmeri</i> <i>Anoda cristata</i> <i>Croton glandulosus</i> <i>Amaranthus rudis</i> <i>Amaranthus tuberculatus</i> <i>Euphorbia heterophylla</i>	3 to 5%	Coarse and Medium Soils: (sandy loam, loamy sand, loamy, silt-loam, silt, sandy clay, sandy clay loam)	3.0 oz./A Peanuts 2.5 oz./A Soybeans
			Fine Soils; (silty clay, silty clay loam, clay, clay loam)	3.0 oz./A Peanuts and Soybeans

(1) Morningglory species are not adequately controlled on fine soils or soils with greater than 3% organic matter.

(2) Due to differences in crop canopy timing between peanuts and soybeans, 3.0 oz./A of VALOR should be used in peanuts, regardless of soil type and organic matter content.

Table 2. Weeds Suppressed by Preemergence Application of VALOR in Peanuts and Soybeans

BROADLEAF WEED SPECIES		OUNCES PER ACRE
COMMON NAME	SCIENTIFIC NAME	
Devil's-claw/Unicorn Plant Ragweed, Giant Russian Thistle Smartweeds Ladysthumb Pennsylvania Velvetleaf	<i>Proboscidea louisianica</i> <i>Ambrosia trifida</i> <i>Salsola iberica</i> <i>Polygonum persicaria</i> <i>Polygonum pensylvanicum</i> <i>Abutilon theophrasti</i>	2.5 to 3.0 oz./A
GRASS WEED SPECIES		
Crabgrass, Large Barnyardgrass Foxtail, Giant Goosegrass Lovegrass, California Panicums Fall Texas Signalgrass	<i>Digitaria sanguinalis</i> <i>Echinochloa crus-galli</i> <i>Setaria faberi</i> <i>Eleusine indica</i> <i>Eragrostis diffusa</i> <i>Panicum dichotomiflorum</i> <i>Panicum texanum</i> <i>Brachiaria platyphylla</i>	

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DIRECTIONS FOR USE IN PEANUTS

GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz. of VALOR per acre during a single growing season.

TIMING TO PEANUTS

A preemergence application of VALOR should be made within 3 days after planting and prior to peanut emergence. Application after the peanuts emerge will result in severe crop injury. Select VALOR rate from Table 1 according to anticipated weed spectrum.

TIMING TO WEEDS

BURNDOWN - PREEMERGENCE TO PEANUTS, POSTEMERGENCE TO WEEDS

VALOR, 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 peanuts will be planted directly into a stale seedbed, cover crop, or in previous crop residues. Apply VALOR before planting, during planting, or after planting, but before the crop emerges. For control of emerged weeds, tank mix VALOR with glyphosate. Refer to glyphosate label for recommended rate and application pressure. To ensure thorough coverage, use a minimum of 15 gals. of spray solution per acre. VALOR tank mixes applied to assist in the control of emerged weeds must be applied with an adjuvant, such as crop oil concentrate or methylated seed oil at 1 qt./A or a non-ionic surfactant at 0.25% v/v. A spray grade nitrogen source (either ammonium sulfate at 2.0 to 2.5 lbs./A or 28 to 32% nitrogen solution at 1 to 2 qts./A) may be added to increase herbicidal activity. Some glyphosate formulations, such as ROUNDUP ULTRA®, are formulated with a suitable adjuvant and do not require additional adjuvant.

Preemergence (conventional tillage) applications of VALOR must be applied prior to weed emergence.

ADDITIONAL GRASS CONTROL: SEQUENTIAL

VALOR may be applied sequentially following a preplant incorporated application of trifluralin (states of Texas, Oklahoma and New Mexico only) SONALAN®, DUAL® (metolachlor), pendimethalin or FRONTIER®.

ADDITIONAL GRASS CONTROL: TANK MIXED

VALOR can be tank mixed with alachlor, metolachlor, or FRONTIER® for additional grass and broadleaf weed control. VALOR can also be tank mixed with pendimethalin or SONALAN® in states where they are labeled, provided overhead irrigation guidelines on the pendimethalin and/or SONALAN® labels are followed.

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. VALOR, 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.

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DIRECTIONS FOR USE IN SOYBEANS

GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz. of VALOR per acre during a single growing season.
- Do not use VALOR in soybeans in the same field flufenacet (AXIOM®, DOMAIN®) alachlor (MICRO-TECH®), metolachlor (DUAL®), or dimethenamid (FRONTIER®) will be used or soybean injury may occur.

TIMING TO SOYBEANS

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

TIMING TO WEEDS

BURNDOWN - PREEMERGENCE TO SOYBEANS, POSTEMERGENCE TO WEEDS

VALOR, 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 VALOR with ground equipment before planting, during planting, or after planting, **but before the crop emerges**. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. Refer to tank mix partner's label for recommended application pressure. All VALOR tank mixes applied to assist in the control of emerged weeds must be applied with crop oil concentrate or methylated seed oil at 1 qt./A or a non-ionic surfactant at 0.25% v/v. Some tank mix products, such as ROUNDUP ULTRA® (glyphosate), may be formulated with a suitable adjuvant and do not require additional adjuvant.

INCREASING SPEED OF GLYPHOSATE/SULFOSATE BURNDOWN ACTIVITY

VALOR may be tank mixed with glyphosate (ROUNDUP ULTRA®) or sulfosate (TOUCHDOWN®) to increase the speed of burndown activity compared to glyphosate or sulfosate applied alone.

TANK MIXES

VALOR 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.

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

TANK MIX PARTNER	TARGET WEEDS ⁽¹⁾
CANOPY® 75 WDG	<ul style="list-style-type: none"> • Chickweed • Maretail
GRAMOXONE EXTRA®	<ul style="list-style-type: none"> • Chickweed • Henbit
Glyphosate	<ul style="list-style-type: none"> • General Burndown
SELECT®	<ul style="list-style-type: none"> • Foxtails • Fall Panicum
SCEPTER® 70 DG	<ul style="list-style-type: none"> • Cocklebur • Common Sunflower
2,4-D LVE	<ul style="list-style-type: none"> • Maretail • Giant Ragweed • Dandelion

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

ADDITIONAL PREEMERGENCE BROADLEAF CONTROL

VALOR can be tank mixed with metribuzin, CANOPY®, FIRSTRATE®, LOROX®, PURSUIT PLUS®, PYTHON®, SQUADRON®, SCEPTER®, or STEEL® for additional broadleaf control.

ADDITIONAL PREEMERGENCE GRASS CONTROL

VALOR can be tank mixed with pendimethalin or COMMAND® 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 VALOR.

ROUNDUP READY PROGRAM

VALOR may be applied preemergence (including as part of a burndown program) at 2 to 3 oz./A to reduce early season weed competition from waterhemp, velvetleaf, nightshade, and morningglories as well as other weeds listed in Tables 1 and 2 in Roundup Ready programs. A sequential post emergence application of glyphosate will be required to control weeds not controlled by VALOR.

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. VALOR, 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.

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STORAGE AND DISPOSAL

PROHIBITIONS

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

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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ASULOX® - Reg. TM of Sedagri for asulam herbicide

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.

DOMAIN® - Reg. TM of Bayer Corporation

DUAL® - Reg. TM of Syngenta for metolachlor herbicide

EVIK® - Reg. TM of Syngenta for ametryn herbicide

FIRSTRATE® - Reg. TM of Dow AgroSciences LLC for chloransulam methyl herbicide

FRONTIER® - Reg. TM of BASF Corporation for dimethenamid herbicide

GRAMOXONE EXTRA® - Reg. TM of Zeneca Ag Products for paraquat herbicide

LASSO® - Reg. TM of Monsanto Co. for alachlor herbicide

LOROX® - Reg. TM of E. I. DuPont de Nemours & Co., Inc. for linuron

MICRO-TECH® - Reg. TM of Monsanto Co. for alachlor herbicide

PURSUIT PLUS® - Reg. TM of BASF Corporation

PYTHON® - Reg. TM of Dow AgroSciences LLC for flumetsulam herbicide

ROUNDUP READY® - Reg. TM of Monsanto Co.

ROUNDUP ULTRA® - Reg. TM of Monsanto Co. for glyphosate herbicide

SCEPTER® - Reg. TM of BASF Corporation for imazaquin herbicide

SELECT® - Reg. TM of Valent U.S.A. Corporation for clethodim herbicide

SONALAN® - Reg. TM of Dow AgroSciences LLC for ethalfluralin herbicide

SQUADRON® - Reg. TM of BASF Corporation

STEEL® - Reg. TM of BASF Corporation

TOUCHDOWN® - Reg. TM of Syngenta for sulfosate herbicide

Manufactured for:

Valent U.S.A. Corporation

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Walnut Creek, CA 94596-8025

Made in U.S.A.

EPA Reg. No. 59639-XX

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