

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 19, 2016

Robert L. Hamilton Sr. Regulatory Scientist Valent U. S. A. Corporation 1600 Riviera Ave., Suite 200 P.O. Box 8025 Walnut Creek, CA 94596-8025

Subject: PRIA Label Amendment – New Uses on Clover Grown for Seed; Citrus Group

10-10; Brassica, Head and Stem Subgroup 5A; Caneberry Subgroup 13-07A; and

Crop Group Expansion for Fruiting Vegetable Group 8-10; Low Growing Berry Subgroup 13-07G; Nut Tree Group 14-12; Onion Bulb Subgroup 3-07A; Pome Fruit Group 11-10; Small Fruit, Vine Climbing, Except Fuzzy Kiwifruit Subgroup

13-07F; and Stone Fruit Group 12-12.

Product Name: Valor Herbicide EPA Registration Number: 59639-99

Application Dates: May 01, 2015 and February 9, 2015 Decision Numbers: 508441, 508442, and 500733

Dear Mr. Hamilton:

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable under FIFRA Section 3(c)(7)(A), subject to the following conditions:

- 1. You must submit and/or cite all data required for registration/registration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.
- 2. You are required to comply with the data requirements described in the DCI Order identified below:
 - a. Flumioxazin GDCI-129034-1236

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1

Page 2 of 2 EPA Reg. No. 59639-99 Decision No. 508441, 508442, and 500733

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). If you have any questions, please contact Driss Benmhend by phone at (703) 308-9525, or via email at Benmhend.driss@epa.gov.

Sincerely,

Rachel C. Holloman, Chief Fungicide & Herbicide Branch,

Rachel C. Holloman

Registration Division,

Office of Pesticide Programs

Enclosure





GROUP 14 HERBICIDE

Note: **Bold italicized text** is information for the reader and is not part of the label. [Bracketed information is optional text].

[Roundup Ready PLUS® Crop Management Solutions]

VALOR® Herbicide

FOR CONTROL AND/OR SUPPRESSION OF CERTAIN WEEDS IN ALFALFA, ARTICHOKE, ASPARAGUS, HEAD AND STEM BRASSICA, BUSHBERRIES, CACTUS (PRICKLY PEAR), CANEBERRIES, CELERY, CITRUS, CLOVER, COTTON, CUCURBIT VEGETABLES, DRY BEANS, FIELD CORN, FIELD PEAS, FLAX, FRUITING VEGETABLES, GARLIC, GRAPE, HOPS, LENTILS, MINT, NUT TREES, ONION (DRY BULB), OLIVE, PEANUT, POME FRUIT, POMEGRANATE, POTATO, SOYBEAN, STONE FRUIT, STRAWBERRY, SUGARCANE, SUNFLOWER AND SAFFLOWER, SWEET POTATO, WHEAT, NON-BEARING FRUIT TREES, FALLOW LAND AND TO MAINTAIN BARE GROUND ON NON-CROP AREAS OF FARMS, ORCHARDS AND VINEYARDS.

Active Ingredient	By Wt
Flumioxazin*	51%
Other Ingredients	49%
Total	<u>100%</u>

 *2 -[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione

Valor[®] Herbicide is a water dispersible granule containing 51% active ingredient.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

[NET WEIGHT POUNDS]	
[Nonrefillable Container	
Net Weight]	_
-or-	
[Refillable Container	
Net Weight]	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

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

	FIRST AID
If inhaled:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
If on skin or clothing:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
If swallowed:	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by the poison control center or doctor. Do not give anything 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 **800-892-0099** for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some of the materials that are chemical-resistant to this product are listed below.

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

For aerial application to sugarcane, mixer/loaders must also wear: coveralls, chemical resistant apron and chemical resistant boots.

For aerial application to artichoke; field peas; flax; lentils; safflower; sunflower and wheat, mixer/loaders must also wear: filtering face piece respirator (N95, R95 or P95).

For ground boom application to cactus (prickly pear); olive and pomegranate, mixer/loaders must also wear: filtering face piece respirator (N95, R95 or P95).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS:

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.

This pesticide is toxic to plants and should be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

Under some conditions this product may have a potential to run-off to surface water or adjacent land. Where possible, use methods which reduce soil erosion, such as no till, limited till and contour plowing; these methods also reduce pesticide run-off. Use of vegetation filter strips along rivers, creeks, streams, wetlands or on the downhill side of fields where run-off could occur will minimize water run-off and is recommended.

Note to EPA reviewer: if this product is shipped in containers greater than 50 lbs, the following environmental hazard statement will be added to the label:

[Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.]

DIRECTIONS FOR USE

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

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

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: coveralls, chemical resistant gloves made of waterproof material, 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 Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries or greenhouses.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift. Do not enter or allow others to enter treated areas until sprays have dried.

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 TO THE FULLEST EXTENT ALLOWED BY LAW, 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. To the extent consistent with applicable law AND 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

To the fullest extent allowed by law, Valent or Seller is not 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. TO THE FULLEST EXTENT ALLOWED BY LAW, 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

To the extent consistent with applicable law allowing such requirements 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.

To the extent consistent with applicable law 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, to the extent allowed by applicable law.

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

RESISTANCE MANAGEMENT RECOMMENDATIONS

Valor Herbicide is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to *Valor* Herbicide and other Group 14 herbicides. Weed species with acquired resistance to Group 14 herbicides may eventually dominate the weed population if Group 14 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by *Valor* Herbicide or other Group 14 herbicides.

To delay herbicide resistance consider:

- Avoiding the consecutive use of *Valor* Herbicide or other target site of action Group 14 herbicides that might have a similar target site of action, on the same weed species.
- Using tank mixtures or premixes with herbicides from different target site of action Groups as long as
 the involved products are all registered for the same use, have different sites of action and are both
 effective at the tank mix or prepack rate on the weed(s) of concern.
- Basing herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitoring treated weed populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

For further information or to report suspected resistance, you may contact Valent U.S.A. Corporation at the following toll-free number: 800-682-5368.

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PRODUCT INFORMATION

Valor Herbicide uses:

- Valor provides residual control of susceptible weeds.
- Valor provides additional burndown activity when used as part of a burndown program.
- Valor can be applied as part of a fall burndown program for control of susceptible winter annuals.
- Valor can be applied with a hooded or shielded sprayer, as well as part of a layby application, in selected crops for postemergence weed control as well as residual control of susceptible weeds.
- Valor can be used on farms, orchards and vineyards for non-selective vegetation control to maintain bare ground non-crop areas that must be kept weed free.
- 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 claimed in crop
 specific use directions. This label makes no claims concerning control of other weed species.

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 of these factors when making decisions. Where states have more stringent regulations, they should be observed.

RESTRICTIONS AND LIMITATIONS

- Do not apply this product when weather conditions favor spray drift from treated areas.
- Do not apply during low-level inversion conditions, including fog.
- Do not apply to frozen or snow covered soil.
- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- Do not apply within 300 yards of non-dormant pears.
- Do not apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.

PRECAUTIONS

- When applying by air, observe drift management restrictions and precautions listed under "AERIAL APPLICATION".
- Mechanical incorporation into the soil will reduce residual weed control.
- Post directed and layby applications of Valor should be applied only to healthy growing crops.

Spray equipment used to apply *Valor* should not be used to apply other materials to any crop foliage, unless the proper cleanout procedures are followed. See "SPRAYER CLEANUP" for more information.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

Preemergence Application (Conventional Tillage)

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 using on well drained soils, planting at least 1.5 inches deep, using high quality seed and completely covering seeds with soil prior to preemergence applications. Treated soil that is splashed onto newly emerged crops may result in temporary crop injury.

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. *Valor* may not control weeds that germinate after application but before an activating rainfall/irrigation or weeds that germinate through cracks resulting from dry soil.

When adequate moisture is not received after a *Valor* application, weed control may be improved by irrigation with at least 1/4 inch of water. If emerged weeds are controlled by cultivation, residual weed control will be reduced.

Burndown Application

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.

Reduced residual weed control may occur when burndown applications are made to fields where heavy crop and/or weed residue exist.

Postemergence Application

Valor should only be applied to healthy crops labeled for postemergence use. Do not apply *Valor* to crops that have been weakened by disease, drought, flooding, excessive fertilization, soil salts, previously applied pesticides, nematodes, insects or winter injury.

Rainfastness

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

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

Residual Weed Control (Including Preemergence Applications or Applications as Part of a Fall or Spring Burndown and Fallow Seedbed 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 the rate range tables contained in this label.

CARRIER VOLUME AND SPRAY PRESSURE (Ground Equipment only. See Information for Aerial Equipment under "AERIAL APPLICATION".)

Preemergence Application (Conventional Tillage)

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

Burndown Application (Prior to Crop Emergence)

To ensure thorough coverage in burndown applications, use 15 to 60 gals. spray solution per acre. Use 20 to 60 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. Do not use flood jet nozzles.

Postemergence Application (Emerged Crop)

Check use directions for specific crops in which *Valor* can be applied postemergence. To ensure thorough coverage in burndown applications, use a minimum of 15 gallons spray solution per acre. Use a minimum of 20 gallons 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 Application (Prior to Crop Emergence)

Postemergence control of weeds from *Valor* tank mixes will require the addition of an agronomically approved adjuvant to the spray mixture. When an adjuvant is to be used with *Valor*, Valent recommends the use of a Chemical Producers and Distributors Association certified adjuvant. Either a crop oil concentrate or methylated seed oil which contains at least 15% emulsifiers and 80% oil or a non-ionic surfactant at 0.25% v/v, may be used when applying *Valor* as part of a burndown program. Some tank mix partners, such as Roundup Power Max[®], are formulated with sufficient adjuvants and do not require the addition of a crop oil concentrate, methylated seed oil or non-ionic surfactant when tank mixed with *Valor*. The addition of a crop oil concentrate or methylated seed oil may increase the burndown activity on certain weeds such as cutleaf eveningprimrose and Carolina geranium. Mixing compatibility qualities should be verified by a jar test.

A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lbs./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 a crop oil concentrate, a methylated seed oil or a non-ionic surfactant.

JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND VALOR HERBICIDE

When using *Valor* and an adjuvant, such as in stale seed bed, layby, hooded/shielded 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 g of *Valor* to the quart jar for every 3 oz of *Valor* per acre being applied (4 g if 12 oz/A is the desired *Valor* rate), gently mix until product goes into suspension.
- 3. Add 60 ml (4 Tbsp or 2 fl oz) of the crop oil or methylated seed oil to the quart jar or 1 ml of non-ionic surfactant if it is being used in place of oil, gently mix.
- 4. If nitrogen is being used, add 16 ml (1 Tbsp or 0.5 oz) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 g 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

Before applying *Valor*, 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 respectively) 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 *Valor*. If two or more products were tank mixed prior to *Valor* application, the most restrictive cleanup procedure should be followed.

MIXING INSTRUCTIONS

- 1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
- 2. If a drift retardant is to be used, add 10 lb of spray grade ammonium sulfate per 100 gal of spray solution.
- 3. To ensure a uniform spray mixture, pre-slurry the required amount of *Valor* with water prior to addition to the spray tank. Use a minimum of 1 gal of water per 10 oz of *Valor*.
- 4. While agitating, slowly add the pre-slurried *Valor* to the spray tank. Agitation should create a rippling or rolling action on the water surface.
- 5. 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.
- 6. Add any required adjuvants.
- 7. Fill spray tank to desired level with water. **Agitation should continue until all spray solution has been applied**.
- 8. Mix only the amount of spray solution that can be applied the day of mixing. *Valor* should be applied within 6 hours of mixing.

SPRAYER CLEANUP

Spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following *Valor* application. After *Valor* 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 (or equivalent) 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. If diaphragms are being used on the spray boom, loosen diaphragms before flushing the spray system, allowing cleaning solution to spray through the open diaphragm. If spray lines have any end caps, they must be loosened before flushing the system, allowing cleaning solution to spray through the loosened caps. To enhance removal of *Valor* from the spray system, add a tank cleaner such as "Valent Tank Cleaner" from Valent U.S.A. Corporation, in place of ammonia and allow the cleaning solution to remain in the pressurized spray system (spray tank, hoses and boom) overnight before flushing the system 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 *Valor* 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 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. The rate of *Valor* required per acre, when applied as a banded application, can be calculated with the following formula:

Amount Needed per Acre for	= -	Band Width in Inches	V	Rate per Broadcast Acre
Banded Application		Row Width in Inches	_ ^	

AERIAL APPLICATION

Spray drift away from the site of application may cause damage to non-target vegetation. To minimize drift, apply the largest droplet size consistent with uniform coverage and satisfactory weed control. To obtain satisfactory application and avoid drift, the following directions must be observed:

- Do not apply during low-level inversion conditions (including fog), when winds are gusty or under other conditions that favor drift. Do not spray when wind velocity is less than 2 mph or more than 10 mph.
- Do not apply this product by air within 40 ft of non-target plants including non-target crops.
- Do not apply this product by air within 100 ft of emerged cotton crops.
- Do not apply this product by air within 40 ft of streams, wetlands, marshes, ponds, lakes and reservoirs.
- Carrier Volume and Spray Pressure: When used as part of a burndown weed control program, apply Valor in 7 to 10 gal of water per acre. Application at less than 7 gal per acre may provide inadequate control. When used for preemergence weed control, apply Valor in 5 to 10 gal of water per acre. The higher gallonage applications generally afford more consistent weed control. Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

- Nozzle Selection and Orientation: Formation of very small drops may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray pressure. Use nozzles that produce flat or hollow cone spray patterns. Use non-drip type nozzles, such as diaphragm type nozzles, to avoid unwanted discharge of spray solution. 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: Refer to tank mix partner's label for adjuvant recommendation. 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.

CHEMIGATION

Follow all label recommendations for crops regarding rates, timing of application, special instructions and precautions.

Apply this product only through center pivot systems. End guns must be turned off due to uneven application. Do not apply this product through any other type of irrigation system.

Crop injury, lack of efficacy or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

The system must be properly calibrated (with water only) to ensure that the amount of *Valor* applied corresponds to the recommended rate.

Apply *Valor* in 1/2 to 3/4 inches of water during the first sprinkler set. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period. Once chemigation has begun, the run must be completed to ensure no product is left in the system.

If you have any questions about calibration, you should contact your State Extension Service Specialist, equipment manufacturers or other experts.

Special Precautions for Chemigation

- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a
 public water system unless the pesticide label-prescribed safety devices for public water systems are in
 place.
- 2. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- The system must be free of leaks and clogged nozzles.
- 4. The pesticide must be supplied continuously for the duration of the aqueous application. An uneven application may cause injury to the crop or poor weed control.
- 5. Agitation must be maintained in the nurse tank.
- The sprinkler chemigation system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in the case where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 11. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.
- 12. Do not apply when wind speed favors drift beyond the area intended for treatment.

Chemigation Systems Connected to Public Water Systems

- 1. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to the public water system must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3. All chemigation systems connected to the public water system must also follow restrictions listed in the preceding section titled "Special Precautions for Chemigation".

APPLICATION WITH DRY BULK FERTILIZERS

Dry bulk fertilizer may be impregnated or coated with *Valor*. Application of dry bulk fertilizer with *Valor* provides weed control equal to, or slightly below, the same rate of *Valor* applied in liquid carriers, due to better coverage with application via spray equipment. Follow label recommendations for *Valor* regarding rates, special instructions, cautions and special precautions. Apply 400 to 700 lbs. of the fertilizer/herbicide mixture per acre to obtain adequate soil coverage. Apply the mixture to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential to prevent possible crop injury and to obtain uniform weed control.

Ammonium nitrate and/or limestone should not be used as the sole source of fertilizer, as the *Valor* may not adhere to these materials.

Compliance with all Federal and State regulations relating to blending pesticide mixtures with dry bulk fertilizer, registrations, labeling and application are the responsibility of the individual and/or company offering the fertilizer and *Valor* mixture for sale.

Valor must be premixed with water to form a slurry prior to impregnation on dry bulk fertilizer. For best results, use a minimum of 1 pt of water for each 2 oz of *Valor*. A minimum of 6 pt of the *Valor* slurry should be used to impregnate 2000 lb of the fertilizer for uniform coverage of the fertilizer. Closed drum, belt, ribbon or other commonly used dry bulk blenders may be used.

The amount of *Valor* required can be calculated with the following formula:

ounces of Valor per ton of fertilizer	=	ounces of Valor per acre	Х	2000	÷	pounds of fertilizer per acre	
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Thoroughly clean dry fertilizer blending equipment after *Valor* has been placed in the system to avoid injury to sensitive crops that may be treated with fertilizers blended after the equipment has been used for *Valor*. Rinse the sides of the blender and the herbicide tank with water. Then impregnate the rinsate onto a load of dry fertilizer intended for an approved crop. Use a maximum rate of 1 gal of rinsate per ton of fertilizer. Follow with 1 to 2 loads of unimpregnated fertilizer in the blender before switching herbicides.

ROTATIONAL RESTRICTIONS

The following rotational crops may be planted after applying *Valor* Herbicide at the listed rate. Planting earlier than the specified rotational interval may result in crop injury.

Do not plant any crop, except corn (field), cotton, peanut, soybean, sugarcane and sweet potato earlier than 30 days after applying *Valor* Herbicide.

VALOR RATES	CROPS	ROTATION INTERVALS
1 oz/A	Cotton (no-till or strip-till only)	14 days ¹
1.5 to 2 oz/A	Cotton (no-till or strip-till only)	21 days ¹
2 oz/A or less	Peanut, Soybean, Sugarcane and Sweet Potato	immediately
	Field Corn (minimum and no-till)	7 days
	Cotton and Field Corn (conventional tillage), Rice, Sorghum, Sunflower, Tobacco and Wheat	30 days ¹
	Barley, Dry and Snap Beans, Flax, Peas, Rye, Safflower and Sweet Corn	3 months
	Alfalfa, Canola, Clover, Oats, Potato, Sugar Beet and all other crops not listed ²	4 months if soil is tilled prior to planting 8 months if no tillage is performed
	Lentil	6 months
Up to 3 oz/A	Peanut, Soybean, Sugarcane and Sweet Potato	immediately
	Field Corn (minimum and no-till)	14 days
	Field Corn (conventional tillage) and Sorghum	30 days ¹
	Cotton, Rice, Sunflower, Tobacco and Wheat	2 months ¹
	Barley, Dry and Snap Beans, Flax, Pea, Rye, Safflower and Sweet Corn	4 months
	Alfalfa, Clover, Oats, Potato, Sugar Beet	5 months if soil is tilled prior to planting 10 months if no tillage is performed
	Canola and all other crops not listed ²	6 months if soil is tilled prior to planting 12 months if no tillage is performed
	Lentil	7 months
	Raised beds only: Head and Stem Brassica except Cabbage	2 months (if the top 4 inches of the beds have been removed)
Up to 4 oz/A	Sugarcane	Immediately
	Alfalfa, Canola, Clover, Potato, Sugar Beet and all other crops not listed ²	6 months if soil is tilled prior to planting 12 months if no tillage is performed
	Cotton, Field Corn, Peanut, Rice, Sorghum, Soybean, Sunflower, Tobacco and Wheat	4 months
	Raised beds only: Cabbage, melon, pepper and tomato[³]	2 months (if the top 4 inches of the beds have been removed)
6 to 12 oz/A	Cotton, Field Corn, Peanut, Rice, Sorghum, Soybean, Sunflower, Tobacco and Wheat	9 months
	Alfalfa, Canola, Clover, Sugar Beet and all other crops not listed ² Trees can be transplanted 2 months after an application of <i>Valor</i> Herbicide ⁴	12 months if soil is tilled prior to planting 18 months if no tillage is performed

At least one inch of rainfall/irrigation must occur between application and planting or crop injury may occur.

² Successful soil bioassay must be performed prior to planting these crops.

³ Arizona, California and Hawaii only: For fallowbed application on transplanted cabbage, melon, pepper and tomato beds

follow supplemental labeling provided by Valent U.S.A. Corporation.]

Transplanted avocado, bushberries (including blueberry), caneberries, citrus fruit, fig, grape, nut trees, olive, pome fruit, pomegranate and stone fruit can be planted 2 months after a *Valor* Herbicide application of 2 to 12 oz/A.

Table 1. Broadleaf Weeds Controlled by Residual Activity of *Valor* Herbicide

BROADLEAF WEED SPECIES SECTION A

SECTION A				
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE
Carpetweed	Mollugo verticillata	Up to 5%	All Soil Types	2 oz/A
Chickweeds	-			
Common	Stellaria media			
Mouseear	Cerastium vulgatum			
Dandelion	Taraxacum officinale			
Eclipta	Eclipta prostrate			
Eveningprimrose, Cutleaf	Oenothera laciniata			
Field Pennycress	Thlaspi arvense			
Florida Pusley	Richardia scabra			
Henbit	Lamium amplexicaule			
Lambsquarters, Common	Chenopodium album			
Little Mallow	Malva parviflora			
Marestail/Horseweed	Conyza canadensis			
Mayweed/False Chamomile	Matricaria maritime			
Nightshades				
Black	Solanum nigrum			
Eastern Black	Solanum ptycanthum			
Hairy	Solanum sarrachoides			
Pigweeds				
Redroot	Amaranthus retroflexus			
Smooth	Amaranthus hybridus			
Spiny Amaranth	Amaranthus spinosus			
Tumble	Amaranthus albus			
Prickly Lettuce	Lactuca serriola			
Prickly Sida (Teaweed)	Sida spinosa			
Puncturevine	Tribulus terrestris			
Purslane, Common	Portulaca oleracea			
Radish, Wild	Raphanus raphanistrum			
Redmaids	Calandrinia ciliata var menziessii			
Shepherd's-purse	Capsella bursa-pastoris			
Smallflower Morningglory	Jacquemontia tamnifolia			
Sowthistle, Prickly	Sonchus asper			
Spotted Spurge	Euphorbia maculata			
Venice Mallow	Hibiscus trionum			

continued

Table 1. Broadleaf Weeds Controlled by Residual Activity of Valor Herbicide (continued)

SECTION B					
All weeds listed in Section A plus:					
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE ^[2]	
Coffee Senna	Cassia occidentalis	Up to 3%	All Soil Types	2 oz/A Cotton and Dry	
Common Ragweed ¹	Ambrosia artemisiifolia			Bean	
False Chamomile	Tripleurospermum maritima			2.5 oz/A Field Corn	
Florida Beggarweed	Desmodium tortuosum			and Soybean	
Golden Crownbeard	Verbesina encelioides			3 oz/A Peanut and all	
Hairy Indigo	Indigofera hirsute			other labeled crops	
Hemp Sesbania	Sesbania exaltata	3 to 5%	Coarse and	2 oz/A Cotton and Dry	
Jimsonweed	Datura stramonium		Medium	Bean 2.5 oz/A Field Corn and Soybean 3 oz/A Peanut and all other labeled crops	
Kochia	Kochia scoparia		Soils:		
London Rocket	Sisymbrium irio		(sandy loam,		
Morningglories ³			loamy sand,		
Entireleaf	Ipomoea hederacea var. integriuscula		loamy, silt- loam, silt,		
lvyleaf	Ipomoea hederacea		sandy clay,		
Red/Scarlet	Ipomoea coccinea		sandy clay		
Tall	Ipomoea purpurea		loam)		
Mustard, Wild	Brassica kaber				
Palmer Amaranth	Amaranthus palmeri				
Spurred Anoda	Anoda cristata		Fine Soils:	2 oz/A Cotton and Dry	
Tropic Croton	Croton glandulosus		(silty clay,	Bean	
Waterhemps ¹			silty clay	3 oz/A Field Corn,	
Common	Amaranthus rudis	_	loam, clay,	Peanut, Soybean and	
Tall	Amaranthus tuberculatus	_	clay loam)	all other labeled crops	
Wild Poinsettia	Euphorbia heterophylla	_			
Yellow Rocket	Barbarea vulgaris				

A postemergence herbicide, such as COBRA®, PHOENIX™ or glyphosate (ROUNDUP READY® soybeans only) may be needed following a preemergence application of *Valor* Herbicide to adequately control common ragweed or waterhemp in soybean fields with heavy pressure.

^{[&}lt;sup>2</sup>Due to differences in crop canopy timing between peanuts and soybeans, 3 oz/A of *Valor* Herbicide should be used in peanuts, regardless of soil type and organic matter content, except in the states of North Carolina, Oklahoma and Virginia where a maximum of 2 oz/A can be applied in peanuts, unless supplemental labeling, provided by Valent U.S.A. Corporation is followed.] [*Valor* Herbicide will provide residual control of these weeds at 2 oz/A when applied under a cotton canopy.]

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

Table 2. Weeds Suppressed by Residual Activity of Valor Herbicide

BROADLEAF WEED SPECIES	ORGANIC	OUNCES PER ACRE	
COMMON NAME SCIENTIFIC NAME			
Bristly Starbur Acanthospermum hispidum		Up to 5%	2 to 3
Copperleaf, Hophornbeam	Acalypha ostryifolia		
Ragweed, Giant Ambrosia trifida			
Russian Thistle	Salsola iberica		
Smartweeds			
Ladysthumb	Polygonum persicaria		
Pennsylvania	Polygonum pensylvanicum		
Smellmelon	Cucumis melo		
Velvetleaf	Abutilon theophrasti		
Wild Buckwheat Polygonum convolvulus			
Wormwood, Biennial	Artemisia biennis		
GRASS WEED SPECIES	·		
Barnyardgrass	Echinochloa crus-galli		
Bluegrass, Annual	Poa annua		
Crabgrass, Large	Digitaria sanguinalis		
Foxtail, Giant	Setaria faberi		
Goosegrass	Eleusine indica		
Lovegrass, California	Eragrostis diffusa		
Panicums	-		
Fall	Panicum dichotomiflorum		
Texas	Panicum texanum		
Ryegrass, Italian	Lolium multiflorum		
Signalgrass, Broadleaf	Brachiaria platyphylla		
Cheat	Bromus secalinus	Up to 5%	1.5 to 3
Downy Brome Bromus tectorum			

DIRECTIONS FOR USE IN FALL AND SPRING PREPLANT BURNDOWN AND FALLOW SEEDBED PROGRAMS IN FIELD CORN, PEANUT AND SOYBEAN (Preemergence to Crop)

[For Use in the States of Arizona, California and Hawaii Only]

RESTRICTIONS AND LIMITATIONS

- Do not apply to frozen or snow covered soil.
- Do not perform any tillage operation after application or residual weed control will be reduced.
- Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.

FALL BURNDOWN AND FALLOW SEEDBED PROGRAMS

Valor [, at 2 to 4 oz/A] can be used in the fall to provide residual weed control in fields that will be planted the following spring with field corn, peanut or soybean (refer to Rotational Restrictions table for rates and rotational intervals prior to planting). Weeds controlled by residual activity are listed in Table 1 (sections A and B), Broadleaf Weeds Controlled by Residual Activity of *Valor*, Table 3, Weeds Controlled by Fall and Spring Preplant Burndown Programs; and Table 7, Weeds Controlled by Residual Activity of *Valor*. If weeds have emerged at the time of application, use *Valor* in combination with a labeled burndown herbicide. [Application must be made no earlier than October 15 in Region 2 or November 15 in Region 1 or when soil temperature falls below 50°F at a 2 inch depth to maintain residual weed control into the spring (April 1 in Region 1 and May 1 in Region 2) or up until planting, whichever comes first.] *Valor* can be used in a fall burndown or fallow seedbed program [outside of Regions 1 and 2], however the length of residual control may be variable.

Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

[Fall Application Regions:

Region 1: Alabama, Arkansas, Georgia, Kentucky, Mississippi, Oklahoma, Tennessee and Virginia

Region 2: Delaware, Kansas, Illinois, Indiana, Iowa, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota, West Virginia and Wisconsin]

Weeds controlled by postemergence or residual activity are listed in Table 3. Preplant burndown treatment tank mixes and rates are:

Herbicide	Rate
Program 1 ¹	
Valor	2 to 3 oz/A
Plus	
glyphosate	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of ROUNDUP Original®)
Plus	
2,4-D LVE (2,4-D for use on	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of 2,4-D 4 LVE)
preplant soybeans only)	
Plus	
NIS + AMS	0.5% v/v + 17 lbs/100 gal of water

or

Program 2 ¹	
Valor	2 to 3 oz/A
Plus	
glyphosate	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of ROUNDUP Original)
Plus	
COC ²	1pt/A
or	or
NIS + AMS	0.5% v/v + 17 lbs/100 gals of water

or

Program 3 ¹	
Valor	2 to 3 oz/A
Plus	
2,4-D LVE (2,4-D for use on preplant soybeans only)	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of 2,4-D 4 LVE)
Plus	
COC	1 pt/A

¹Dicamba (BANVEL®), at 0.188 lb ai/A (6 fl oz/A of BANVEL 4) can be added to Programs 1, 2 & 3 to assist in the control emerged broadleaves. Refer to dicamba label for rotational restrictions.

²Crop oil concentrate has been found to increase glyphosate burndown of emerged cutleaf eveningprimrose and Carolina geranium.

Table 3. Weeds Controlled by Fall and Spring Preplant Burndown Programs

WEEDS CONTROLLED ¹		POSTEMERGENCE			RESIDUAL
COMMON NAME	SCIENTIFIC NAME	Program 1	Program 2	Program 3	
COMMON NAME		Weeds 3 inches or less			
Chamomile, False	Matricaria maritime	Yes	Yes	No	Yes
Cheatgrass	Bromus tectorum	Yes	Yes	No	Yes
Chickweed, Common	Stellaria media	Yes	Yes	No	Yes
Chickweed, Mouseear	Cerastium vulgatum	Yes	Yes	No	Yes
Cockle, White	Silene latifolie	No	Yes	Yes	Yes
Dandelion	Taraxacum officinale	Yes	No	Yes ²	Yes
Deadnettle, Purple	Lamium purpureum	Yes	Yes	Yes	Yes
Groundsel, Cressleaf	Senecio glabellus	Yes	Yes	-	Yes
Henbit	Lamium amplexicaule	Yes	Yes	Yes	Yes
Kochia	Kochia scoparia	Yes	Yes	Yes	Yes
Marestail/Horseweed	Conyza canadensis	Yes	Yes ³	Yes	Yes
Mallow, Common	Malva neglecta	Yes	Yes	No	Yes
Prickly Lettuce	Lactuca serriola	Yes	Yes	Yes	Yes
Wormwood, Biennial	Artemisia biennis	Yes	Yes	Yes	Yes
		Weeds	12 inches or le	ess	
Canola, Volunteer	Brassica napus	Yes	Yes	Yes	Yes
Carolina Geranium	Geranium carolinianum	Yes	Yes	Yes	-
Eveningprimrose, Cutleaf4	Oenothera laciniata	Yes	Yes	Yes	Yes
Flixweed	Descurainia sophia	Yes	Yes	Yes	Yes
Mustard, Tansy	Descurainia pinnata	Yes	Yes	Yes	Yes
Mustard, Wild	Brassica kaber	Yes	Yes	Yes	Yes
Shepherd's-purse	Capsella bursa-pastoris	Yes	Yes	Yes	Yes

¹Refer to glyphosate and/or 2,4-D labels for additional weeds controlled and rotational restrictions.

Programs 2 or 3 should be used to control cutleaf evening primrose that are 12 inches or less and in the rosette stage.

SPRING BURNDOWN PROGRAMS

Valor Herbicide can be used in combination with labeled preplant burndown herbicides to assist in the postemergence burndown of emerged weeds and provide residual weed control prior to crop emergence. Weeds controlled by residual activity are listed in Table 1.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row. Apply *Valor* Herbicide after planting peanuts and soybeans when these types of planters are used (within 3 days after planting soybeans, within 2 days after planting peanuts and before the crop emerges). *Valor* cannot be applied after planting field corn.

Valor Herbicide can be used [at 1 to 3 oz/A] with labeled preplant burndown herbicides to enhance the speed of burndown and increase weed spectrum.

Valor Herbicide can be used [at 1 to 3 oz/A] [1 to 2 oz/A] in field corn, peanut and soybean burndown programs. See "DIRECTIONS FOR USE IN FIELD CORN", "DIRECTIONS FOR USE IN PEANUT", "DIRECTIONS FOR USE IN SOYBEAN" for more information.

²1 lb ai/A of 2,4-D LVE (equivalent to 2 pt/A of 2,4-D 4 LVE) should be used for control of emerged dandelion.

³ Program 2 will not control emerged glyphosate resistant marestail/horseweed.

⁴ Program 1 should be used to control cutleaf eveningprimrose that are nearing 12 inches in height or are past the rosette stage.

DIRECTIONS FOR USE IN FALL AND SPRING BURNDOWN PROGRAMS IN COTTON AND SUGARCANE

[For Use in the States of Arizona, California and Hawaii Only]

RESTRICTIONS AND LIMITATIONS

- Do not apply to frozen or snow covered soil.
- Do not perform any tillage operation after application or residual weed control will be reduced.
- Valor Herbicide can be used [at 1 to 2 oz/A] with labeled burndown herbicides to enhance the speed of burndown and increase weed spectrum.
- A minimum of 30 days must pass, and 1 inch of rainfall/irrigation must occur, between *Valor* Herbicide application and planting of conventionally tilled cotton.
- A minimum of 14 days must pass, and 1 inch of rainfall/irrigation must occur, between *Valor* Herbicide application and planting of no-till or strip-till cotton when a *Valor* Herbicide rate of 1 oz/A is used and 21 days when a *Valor* Herbicide rate of 1.5 to 2 oz/A is used. The field must contain the stubble from the previous crop.
- Valor Herbicide can be applied as part of a burndown application to sugarcane until cane emergence.
- Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.
- Refer to most restrictive label for minimum interval between application and planting.

FALL BURNDOWN PROGRAMS

Valor Herbicide [, at 2 to 4 oz/A,] can be used in the fall to provide residual weed control in fields that will be planted the following spring with cotton or sugarcane (refer to Rotational Restrictions table for rates and rotational intervals prior to planting). Weeds controlled by residual activity are listed in Table 1 and Table 7. If weeds have emerged at the time of application, use *Valor* Herbicide in combination with a labeled burndown herbicide. [Application must be made no earlier than October 15 in Region 2 or November 15 in Region 1 or when soil temperature falls below 50°F at a 2 inch depth to maintain residual weed control into the spring (April 1 in Region 1 and May 1 in Region 2) or up until planting, whichever comes first.] [*Valor* Herbicide can be used in a fall burndown or fallow seedbed program outside of Regions 1 and 2.]

Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

SPRING BURNDOWN PROGRAMS

Valor Herbicide [, at 1 to 2 oz/A,] can be used in combination with labeled preplant burndown herbicides to assist in the postemergence burndown of emerged weeds and provide residual weed control prior to crop emergence in fields that will be planted with cotton or sugarcane. Weeds controlled by residual activity are listed in Table 1.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row.

DIRECTIONS FOR USE IN FALL AND SPRING BURNDOWN PROGRAMS IN RICE, SORGHUM, SUNFLOWER, TOBACCO AND WHEAT (Preplant to Crop)

[For Use in the States of Arizona, California and Hawaii Only]

RESTRICTIONS AND LIMITATIONS

- Do not apply to frozen or snow covered soil.
- Do not perform any tillage operation after application or residual weed control will be reduced.
- Valor Herbicide can be used [at 1 to 2 oz/A] with labeled burndown herbicides to enhance the speed of burndown
 and increase weed spectrum. A minimum of 30 days must pass, and 1 inch of rainfall/irrigation must occur, between
 Valor Herbicide application and planting of rice, sorghum, sugarcane, sunflowers, tobacco or wheat. Refer to most
 restrictive label for minimum interval between application and planting.
- Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.

FALL BURNDOWN PROGRAMS

Valor Herbicide can be used in combination with labeled burndown programs to control emerged weeds and provide residual weed control in fields that will be planted the following spring (refer to Rotational Restrictions table for rates and rotational intervals prior to planting). [Application must be made no earlier than October 15 in Region 2 or November 15 in region 1 or when soil temperature falls below 50°F. at a two inch depth to maintain residual weed control into the spring.]

Abnormally warm winters may reduce the length of weed control observed in the spring.

SPRING BURNDOWN PROGRAMS

Valor Herbicide can be used in combination with labeled burndown programs to control emerged weeds and provide residual weed control prior to crop emergence. Weeds controlled by residual activity are listed in Table 1 Section A. Crops that will be planted following application must be in compliance with the rotational interval listed in the "Rotational Restriction" table above.

No-till planters that incorporate the soil during planting may result in decreased weed control in the row.

DIRECTIONS FOR USE IN FALL BURNDOWN PROGRAMS IN FIELDS TO BE PLANTED TO BARLEY, FIELD PEA, FLAX, LENTIL, SAFFLOWER, SUNFLOWER AND SPRING WHEAT (Preplant to Crop)

[For Use in the States of Arizona, California and Hawaii Only]

RESTRICTIONS AND LIMITATIONS

- Do not apply to frozen or snow covered soil.
- Do not perform any tillage operation after application or residual weed control will be reduced.
- Valor Herbicide can be mixed with 2,4-D and/or glyphosate formulations labeled for burndown programs (preplant to crop) in accordance with the most restrictive label limitations and precautions. Labeled application rates can not be exceeded. Do not mix Valor Herbicide with any product containing a label prohibition against such mixing.
- Observe all rotational intervals prior to planting as listed in the "ROTATIONAL RESTRICTIONS" table.

FALL BURNDOWN PROGRAMS

Valor Herbicide can be used [at 2 to 4 oz/A] with labeled burndown herbicides to enhance the speed of burndown, increase weed spectrum and provide residual weed control of the weeds listed in Table 3 until the following spring. Rotational intervals must be followed for crop to be planted in the spring following the fall *Valor* Herbicide application. Refer to most restrictive label for minimum interval between application and planting.

DIRECTIONS FOR USE IN FALLOW LAND

[For Use in the States of Arizona, California and Hawaii Only]

Valor Herbicide may be used as a preemergence fallow treatment. Weeds controlled by residual activity are listed in Table 1.

Valor Herbicide [, at 2 to 4 oz/A,] can be used in the fall to provide residual weed control in fallow fields (refer to Rotational Restrictions table for rates and rotational intervals prior to planting). If weeds have emerged at the time of application, use *Valor* Herbicide in combination with a labeled fallow herbicide. [Application must be made no earlier than October 15 in Region 2 or November 15 in Region 1 or when soil temperature falls below 50°F at a 2 inch depth to maintain residual weed control into the spring (April 1 in Region 1 and May 1 in Region 2).] Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

Valor Herbicide [, at 1 to 4 oz/A,] can be used in spring in combination with labeled burndown herbicides to control emerged weeds and provide residual weed control.

DIRECTIONS FOR USE IN ESTABLISHED ALFALFA

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 4 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 8 oz of *Valor* Herbicide per acre during a single growing season.
- Do not make a sequential Valor Herbicide application within 60 days of the first Valor Herbicide application.
- Do not apply to alfalfa with greater than 6 inches of growth. Application will result in burning of treated leaves and stems. **Users should understand and accept this risk before using** *Valor* **on alfalfa.**
- Do not apply within 25 days of harvest or grazing.
- Do not use on alfalfa grown for seed unless approved by a State authority to support a Special Local Need (SLN) under FIFRA section 24(c).
- Only apply with an adjuvant or tank mix with products formulated as an emulsifiable concentrate "EC" when
 targeting control of emerged weeds (crop burn and/or stunting should be expected and accepted if *Valor*Herbicide is used with an adjuvant, a tank mix partner formulated as an emulsifiable concentrate (EC) or a tank
 mix partner formulated with an adjuvant.)
- Application with paraquat can be used to burndown winter annuals prior to winter dormant period.
- Do not use on intended mixed alfalfa-grass stands.

TIMING TO ALFALFA

Valor Herbicide may be applied to established alfalfa with a maximum amount of growth of 6 inches or less for the preemergence control of the weeds listed in Table 7, Weeds Controlled by Residual Activity of *Valor* Herbicide. Established alfalfa is defined as alfalfa planted in the fall or spring which has gone through a first cutting/mowing. Application to alfalfa with greater than 6 inches of growth may result in unacceptable crop injury.

For control of winter annual weeds: the best timing for preemergence control is in the fall immediately after the last cutting or sheeping-off has occurred.

For control of summer annual weeds: the best timing for preemergence control is in the spring prior to alfalfa growth and before 6 inches of growth.

TIMING TO WEEDS

Preemergence – Preemergence To Weeds

Apply *Valor* Herbicide before alfalfa growth exceeds 6 inches in height for the preemergence control of weeds listed in Table 7, Weeds Controlled by Residual Activity of *Valor* Herbicide. Applications should be made as soon as possible after cutting and removing alfalfa to minimize injury to alfalfa growth.

Postemergence Dodder Suppression

Apply *Valor* Herbicide at 4 oz per acre with an adjuvant for postemergence suppression of dodder. Tank mixes with Pursuit[®] Herbicide or Raptor[®] Herbicide will increase control.

DIRECTIONS FOR USE IN ARTICHOKE

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 4 oz/A of *Valor* Herbicide per acre during a single application on annual or perennial artichoke varieties after new planting.
- Do not apply more than 6 oz/A of *Valor* Herbicide per acre during a single application on perennial artichoke varieties after cutback.
- Do not apply more than 6 oz of *Valor* Herbicide per acre during a single growing season.
- · Application to artichoke foliage may result in unacceptable crop injury.

TIMING TO ARTICHOKE

Annual Varieties: *Valor* Herbicide may be applied to artichoke beds prior to transplanting. Application of *Valor* Herbicide must be made to the beds no later than 2 days prior to transplanting. Irrigation or rainfall after transplanting is necessary to activate the *Valor* Herbicide. Do not irrigate the *Valor* Herbicide before transplanting. Heavy irrigation or rainfall may result in crop injury. The injury is usually transitory and the plants will quickly grow out of the crop damage. Care should be taken to minimize soil disturbance during transplanting, as preemergence weed control will decrease as soil disturbance increases.

Perennial Varieties: *Valor* Herbicide may be applied to artichokes after planting of crown pieces or "cut back" of mature plants. Applications of *Valor* Herbicide must be made within 2 days after planting or cut back and prior to artichoke emergence. Application after the artichokes have begun to crack, or are emerged, will result in crop injury. Application should not be made when artichokes have begun to emerge (cracking).

TIMING TO WEEDS

Pre-plant (annual)/Preemergence (perennial) to Artichokes - Preemergence to Weeds

Apply *Valor* Herbicide pre-plant to annual artichokes for preemergence control of the weeds. For perennial artichokes apply before cracking for preemergence control the weeds. Application should be made prior to weed emergence. A post-emergence herbicide may be necessary to control emerged weeds. *Valor* Herbicide may be applied to annual or perennial artichokes as specified above for preemergence control of weeds listed in Table 7, *Weeds Controlled by Residual Activity of Valor* Herbicide.

DIRECTIONS FOR USE IN ESTABLISHED ASPARAGUS

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 6 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 6 oz of Valor Herbicide per acre during a single growing season.
- Apply only to dormant asparagus no less than 14 days before spears emerge. Application to non-dormant asparagus may result in unacceptable crop injury.
- [Do not work soil within 60 days prior to application in the spring. Soil can be worked after spear harvest in preparation for Valor Herbicide application prior to fern emergence. Treated soil that is splashed onto the ferns may result in spotting.]

TIMING TO ASPARAGUS - Dormant

Valor Herbicide may be applied to dormant asparagus for preemergence control of the weeds listed in Table 10, Weeds Controlled by Preemergence Application of *Valor* Herbicide. Application to non-dormant asparagus will result in unacceptable crop injury. Applications should be made no less than two weeks prior to spear emergence and must be sprinkler or rainfall incorporated with 0.5 to 0.75 inches of water or some scoring may result.

TIMING TO ASPARAGUS – Post Harvest

Apply *Valor* Herbicide after the final harvest of the season, but prior to fern emergence, for preemergence control of the weeds listed in Table 10, Weeds Controlled by Preemergence Application of *Valor* Herbicide. Application after fern emergence will result in unacceptable crop injury. Apply no less than two weeks prior to fern emergence and must be sprinkler or rainfall incorporated with 0.5 to 0.75 inches of water. Add a burndown tank mix partner for the control of emerged weeds labeled for asparagus in accordance with the most restrictive labeled limitations and precautions.

TIMING TO WEEDS

Burndown - Dormant Asparagus, Postemergence to Weeds

Valor Herbicide may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where asparagus is dormant. For control of emerged weeds, tank mix *Valor* Herbicide with paraquat. Refer to paraquat label for recommended rate and application parameters. To ensure thorough coverage, use a minimum of 15 gal of spray solution per acre. *Valor* Herbicide tank mixes applied to assist in the control of emerged weeds must be applied with a non-ionic surfactant at 0.25% v/v. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lb/A or 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to increase herbicidal activity.

Burndown - After Last Harvest of Season, Postemergence to Weeds

Use *Valor* Herbicide for residual weed control and to assist in postemergence burndown for many annual and perennial weeds where asparagus harvest has been completed for the year. For control of emerged weeds, use a labeled tank mix partner with activity on the emerged weeds.

Preemergence - Dormant Asparagus or After Last Harvest of Season, Preemergence to Weeds

Apply *Valor* Herbicide to dormant asparagus for the preemergence control of weeds listed in Table 10, Weeds Controlled by Preemergence Application of *Valor* Herbicide.

DIRECTIONS FOR USE IN BRASSICA HEAD AND STEM VEGETABLE GROUP 5-16

Includes: Broccoli; Brussels Sprouts; Cabbage; Cabbage, Chinese, napa; Cauliflower; cultivars, varieties, and/or hybrids of these.

FOR DISTRIBUTION AND USE ONLY WHERE THIRD PARTY INDEMNIFACATION IS IN EFFECT

ROW MIDDLES

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of *Valor* Herbicide per acre during a single application. For Cabbage do not apply more than 4 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 6 oz of *Valor* Herbicide per acre during a single growing season. For Cabbage do not apply more than 8 oz of *Valor* Herbicide per acre during a single growing season.

PRECAUTIONS

- Valor Herbicide can only be applied in row middles between raised plastic mulched beds that are at least 4 inches higher than the treated row middle and the mulched bed must have a minimum of a 24-inch bed width.
- Spray must remain between raised beds and contact no more than the bottom 1 inch of the side of the raised bed.
- Do not apply after crops are transplanted.
- All applications must be made with shielded or hooded equipment.
- Efficacy will be reduced if *Valor* Herbicide is applied to areas of standing water within the row middles.
- Injury can occur if soil particles treated with Valor Herbicide contact the crop.
- Irrigate treated field after application and prior to transplanting with minimum of 1/4 inch of water if rainfall does not occur between application and transplanting.

TIMING TO CROP

Valor Herbicide may be applied at 3 oz per acre (except cabbage may be applied at 4 oz/A) as a shielded or hooded application to row middles after plastic is laid up to transplanting or seeding. Transplanting or seeding can take place any time after spray has dried. Spray must be applied to the row middle and contact no more than approximately the bottom 1 inch of the side of the raised bed. If the top of the mulch beds (where plants are to be transplanted) is contacted, severe injury can occur due to foliage contact with treated plastic.

WEED CONTROL AND TANK MIXING

Valor Herbicide provides preemergence residual control of the weeds listed in Table 7, *Weeds Controlled by Residual Activity of Valor*, as well as to assist in the postemergence control of emerged weeds. A registered preemergence grass herbicide may be added for control of additional grassy weeds. For control of emerged weeds, tank mix *Valor* Herbicide with paraquat, AimTM, glyphosate, or other registered burndown herbicide. Refer to tank mix partner label for recommended rates and application parameters.

DIRECTIONS FOR USE ON CACTUS (PRICKLY PEAR)

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 12 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 12 oz of *Valor* Herbicide per acre during a 12 month period.
- A maximum *Valor* Herbicide rate of 6 oz/A per application should be used on any soil that has a sand plus gravel content over 80% if plants are less than 3 years of age. (Two applications of 6 oz/A in a 12 month period can still be made as long as there have been 60 days between applications).
- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- Raise mower height during all mowing to reduce dust. Dust created by mowing can drift onto desirable vegetation resulting in injury.
- Do not mow treated areas. Dust created by mowing may drift onto desirable vegetation resulting in injury.
- Follow the most restrictive label limitations and precautions of the tank mix product(s) being used.
- Avoid direct or indirect spray contact to foliage.
- Do not apply within 60 days prior to harvest.
- Do not apply to plants established less than one year.

Valor Herbicide should be applied as a uniform broadcast application to the plantation floor or as a uniform band directed at the base of the cactus. The preferred application timing for *Valor* Herbicide is in the fall to maximize the potential for rainfall to activate and set the herbicide. Do not apply over the top of crop or allow spray to come in contact with crop as a result of application or drift.

Preemergence Application

Apply 6 to 12 oz (0.188 to 0.38 lb ai/A) of *Valor* Herbicide per broadcast acre as a preemergence application. *Valor* Herbicide applications must be made prior to weed emergence for control of weeds listed in Table 10, *Weeds Controlled by Preemergence Application of Valor Herbicide*. Preemergence (to weed emergence) applications of *Valor* Herbicide should be made to a weed-free soil surface. Preemergence applications of *Valor* Herbicide must be completed prior to weed emergence. Moisture is necessary to activate *Valor* Herbicide on soil for residual weed control. Dry weather following application of *Valor* Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, *Valor* Herbicide will control susceptible germinating weeds.

[Postemergence Application

Apply 6 to 12 oz (0.188 to 0.38 lb ai/A) of *Valor* Herbicide per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate). The addition of an adjuvant enhances *Valor* Herbicide activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of *Valor* Herbicide.

Refer to Table 13, Broadleaf Weeds Controlled by Residual Activity of Valor Herbicide for weeds controlled by the residual activity of Valor Herbicide. Valor Herbicide should be tank mixed with a labeled burndown herbicide for control of the emerged weeds.

Residual weed control will be reduced if vegetation prevents the *Valor* Herbicide from reaching the soil surface. If vegetation is heavy, it is recommended to use a burndown herbicide with *Valor* Herbicide and make a sequential *Valor* Herbicide application prior to the emergence of new weeds.]

Carrier Volume and Spray Pressure

To ensure thorough coverage in burndown applications, use a minimum of 15 gallons of spray solution per acre. Use higher gallonage if dense vegetation or heavy crop residue is present.

Nozzle selection should meet manufacturer's gallonage and pressure recommendations.

Banded Application

Rates listed in Table 13, Weeds Controlled by Postemergence Activity of Valor Herbicide Tank Mixes, refer to a broadcast application covering the entire acre. Refer to the Band Application table in Use Information Section to calculate amount needed per acre when making a banded application.

DIRECTIONS FOR USE IN CELERY

[For Use in the States of [California], Michigan and Wisconsin Only]

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of Valor Herbicide per acre during a pre-transplant application.
- [In the state of California, use as pre-transplant application only.]
- Do not apply more than 3 oz of Valor Herbicide per acre during a post-transplant application.
- Do not apply more than 3 oz of *Valor* Herbicide per acre during a single growing season.
- Do not use with an adjuvant.
- Post transplant applications must be made between 3 to 7 days following transplanting.
- Do not apply as part of a tank mix.

TIMING TO CELERY

Apply *Valor* Herbicide at 3 oz/A prior to transplanting, or between 3 and 7 days following transplanting, for preemergence control of the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity of *Valor* Herbicide.

TIMING TO WEEDS

Use Valor Herbicide prior to weed emergence for residual control.

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* Herbicide, when applied according to label use directions, will control the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity of *Valor* Herbicide. This label makes no claims concerning control of other weed species.

DIRECTIONS FOR USE IN ESTABLISHED CLOVER

For Use in Idaho, Oregon and Washington Only

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 4 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 4 oz of Valor Herbicide per acre during a single growing season.
- Do not apply within 25 days of harvest or grazing.
- Application to clover with greater than 6 inches of growth may result in unacceptable crop injury.

PRECAUTIONS

- Do not apply to clover with greater than 6 inches of growth. Application will result in burning of treated leaves and stems. Users should understand and accept this risk before using Valor Herbicide on clover.
- Only apply with an adjuvant or tank mix with products formulated as an emulsifiable concentrate "EC" when targeting control of emerged weeds (expect and accept crop may be burned and/or stunting when applying tank mixes of *Valor* Herbicide with an adjuvant).
- Application with paraquat can be used to burndown winter annuals prior to winter dormant period.
- Do not use on intended mixed clover-grass stands.

TIMING TO CLOVER

Valor Herbicide may be applied to established clover with a maximum amount of growth of 6 inches or less for the preemergence control of the weeds listed in Table 7, Weeds Controlled by Residual Activity of *Valor* Herbicide. Established Clover is defined as clover planted in the fall or spring which has gone through a first cutting/mowing.

For control of winter annual weeds: the best timing for preemergence control is in the fall immediately after the last cutting or sheeping-off has occurred.

For control of summer annual weeds: the best timing for preemergence control is in the spring prior to clover growth and before 6 inches of growth.

TIMING TO WEEDS

Preemergence – Preemergence to Weeds

Apply *Valor* Herbicide before clover growth exceeds 6 inches in height for the preemergence control of weeds listed in Table 7, Weeds Controlled by Residual Activity of *Valor* Herbicide. Applications should be made as soon as possible after cutting and removing clover to minimize injury to clover growth.

Postemergence Dodder Suppression

Apply *Valor* Herbicide at 4 oz per acre with an adjuvant for postemergence suppression of dodder. Tank mixes with Pursuit Herbicide or Raptor Herbicide will increase control.

DIRECTIONS FOR USE IN COTTON

[For Use in the States of Arizona, California and Hawaii Only]

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 oz of *Valor* per acre during a single application.
- Do not apply more than 4 oz of Valor per acre during a single growing season.
- Do not make a sequential *Valor* application within 30 days of the first *Valor* application.
- Do not apply within 60 days of harvest.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE Hooded, Shielded and Layby Application

For best results, *Valor* should be applied to actively growing weeds within the growth stages indicated in this label. Applying *Valor* under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply *Valor* 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. *Valor* is most effective when applied under sunny conditions at temperatures above 65°F.

Valor is rainfast one hour after application. Applications should not be made if rain is expected within one hour of application or postemergence efficacy may be reduced. Rainfall within one hour of application will not adversely affect residual activity.

HERBICIDE RATE

Hooded, Shielded and Layby Application

For postemergence weed control, *Valor* should be applied through a hooded or shielded sprayer or at layby, at 2 oz/A, in combinations with MSMA or at 1 to 2 oz/A in combination with glyphosate, to assist in the control of weeds listed in Table 4. Residual weed control can also be obtained through hooded, shielded and layby application of *Valor*. Weeds that are controlled through residual activity of *Valor* are listed in Table 1. Weeds that are suppressed by residual activity of *Valor* are listed in Table 2.

Table 4. Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of Valor Tank

Mixes With Glyphosate or MSMA in Cotton

BROADLEAF WEED SPEC	WEED HEIGHT (inches)	
COMMON NAME	2 oz/A	
Bindweed, Field ¹	4	
Carpetweed	Mollugo verticillata	4
Chickweed, Common	Stellaria media	4
Cocklebur, Common	Xanthium strumarium	4
Florida Beggarweed	Desmodium tortuosum	2
Hemp Sesbania	Sesbania exaltata	6
Jimsonweed	Datura stramonium	4
Lambsquarters, Common	Chenopodium album	4
Morningglories		
Entireleaf	Ipomoea hederacea var. integriuscula	4
lvyleaf	Ipomoea hederacea	4
Pitted	Ipomoea lacunose	4
Red	Ipomoea coccinea	4
Tall	Ipomoea purpurea	2
Mustard, Wild	Brassica kaber	6
Nightshades		
Black	Solanum nigrum	4
Eastern Black	Solanum ptycanthum	4
Hairy	Solanum sarrachoides	4
Pigweeds		·
Palmer Amaranth	Amaranthus palmeri	4
Redroot	Amaranthus retroflexus	4
Smooth	Amaranthus hybridus	4
Plaintain, Broadleaf	Plantago major	6
Prickly Sida (Teaweed)	Sida spinosa	4
Purslane, Common	Portulaca oleracea	2
Ragweeds		_
Common	Ambrosia artemisiifolia	2
Giant	Ambrosia trifida	4
Rice Flatsedge	Cyperus iria	2
Sicklepod	Senna obtusifolia	4
Smartweeds		·
Ladysthumb	Polygonum persicaria	4
Pale	Polygonum lapathifolium	4
Pennsylvania	Polygonum pensylvanicum	4
Spotted Spurge	Euphorbia maculata	4
Velvetleaf	Abutilon theophrasti	4
Venice Mallow	Hibiscus trionum	2
Waterhemps		-
Common	Amaranthus rudis	2
Tall	Amaranthus tuberculatus	2

Valor tank mixes will control the above ground portion of field bindweed. Repeated applications will be needed to control regrowth.

CARRIER VOLUME AND SPRAY PRESSURE

Hooded, Shielded and Layby Application

To ensure thorough coverage in hooded, shielded and layby applications, use 15 to 30 gals spray solution per treated acre. Use 20 to 30 gals per treated acre under heavy weed pressure. Nozzle selection should meet manufacturer's gallonage and pressure recommendations for application method being used. Do not use "Flood Jet" nozzles, as they tend to increase the chance of crop injury.

ADDITIVES

Hooded, Shielded and Layby Application

Weed control from hooded, shielded or layby application of Valor in cotton requires the addition of an agronomically approved non-ionic surfactant to the spray mixture. Non-ionic surfactant must contain at least 80% active ingredient. Mixing compatibility qualities should be verified by a jar test. The use of crop oil concentrates, methylated seed oils, organo-silicant surfactants or products containing these ingredients, may result in severe crop injury and should not be used.

APPLICATION EQUIPMENT

Apply *Valor* tank mixes, with ground equipment using standard commercial sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. Application equipment should be clean and in good repair. Nozzles should meet manufacturer's recommendations for spray pattern and placement on spray boom and should be checked frequently for accuracy.

TIMING TO COTTON

Hooded and Shielded Application

Valor tank mixes may be applied with a hooded or shielded sprayer after cotton has reached a minimum of 6 inches in height. All nozzles must be under the hood or behind the shield to ensure no spray solution comes in contact with the cotton. Care must be taken to ensure the spray solution or drift does not come in contact with the cotton or severe crop injury can occur.

Layby Application

Layby application of *Valor* tank mixes may be made once cotton has reached a minimum of 16 inches in height. Cotton that is smaller than 16 inches in height may be injured by *Valor* applications. *Valor* application must be directed to the lower 2 inches of the cotton stem to avoid crop injury.

TIMING TO WEEDS

Valor tank mix applications must be made to weeds within the height range given in Table 4.

TANK MIXES

Valor must be tank mixed with one of the herbicides listed in Table 5 for postemergence control of the weeds listed in Table 4.

Table 5. Tank Mixes with Valor for Hooded, Shielded and/or Layby Use in Cotton

TANK MIX PARTNER	TARGET WEEDS	HOODED AND SHIELDED	LAYBY
glyphosate	Perennial Grasses and Broadleaves	X	X ¹
MSMA	Annual Grasses Yellow Nutsedge	Х	Х

¹ For use only in cotton with the ROUNDUP READY gene.

DIRECTIONS FOR USE IN CUCURBIT VEGETABLES

Cucurbit Vegetables (Crop Group 9) including: chayote (fruit); Chinese Waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon

Many weather related factors, including high wind or heavy rains or cool conditions at or near crop transplanting, may result in crop injury in fields treated with *Valor* Herbicide. On occasion this has resulted in a delay in maturity. User should assume these risks before using *Valor* Herbicide.

Read tank mix product label for rate 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* Herbicide, when applied according to label use directions, will control the weeds listed in Table 7, Weeds Controlled by Residual Activity of *Valor* Herbicide. This label makes no claims concerning control of other weed species.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 4 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 8 oz of Valor Herbicide per acre during a single growing season.

FOR DISTRIBUTION AND USE ONLY WHERE THIRD PARTY INDEMNIFACATION IS IN EFFECT ROW MIDDLES

RESTRICTIONS AND LIMITATIONS

- Do not use with an adjuvant.
- Plants should be grown on raised plastic mulched beds that are higher than the treated row middle.
- Spray must be directed to the row middle, away from the crop bed and with minimal contact with plastic, including the sides of the bed. If top of mulch beds (where plants are to be transplanted) is contacted, severe injury can occur due to foliage contact with treated plastic. In this scenario, a rainfall event of 1/2 inch (natural or irrigation) must occur prior to transplanting to reduce *Valor* Herbicide residues.
- Drift of treated soil particles onto plants may cause contact injury.
- Irrigate treated field after application and prior to transplanting with minimum of 1/4 inch of water if rainfall does not occur between application and transplanting.
- All applications must be made with hooded or shielded equipment.

TIMING TO CUCURBIT VEGETABLES

Apply *Valor* Herbicide at 4 oz per acre as a hooded or shielded application to row middles up to 14 days prior to transplanting or seeding for preemergence control of the weeds listed in Table 7, Weeds Controlled by Residual Activity of *Valor* Herbicide, as well as to assist in the postemergence control of emerged weeds. A second application of *Valor* Herbicide at 4 oz per acre may be applied up to 21 days after transplanting or emergence if needed. Do not apply during or after bloom.

TIMING TO WEEDS

Valor Herbicide may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds in row middles. A registered preemergence grass herbicide may be added for control of additional grassy weeds. For assisting in the control of emerged weeds, tank mix Valor Herbicide with paraquat, Aim^{TM} or other registered burndown herbicide. Do not tank mix with glyphosate after transplanting. Refer to tank mix partner's label for recommended rate and application parameters.

FALLOWBED USE ON TRANSPLANTED MELON BEDS [including muskmelon (includes

cantaloupe); watermelon]

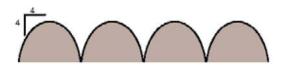
[For use in Arizona, California and Hawaii only]

VALOR HERBICIDE RATES	ADJUVANT	GPA	TRANSPLANTING INTERVAL
4 oz/A	Required by burndown tank mix partner	Ground – 20 to 40	2 Months

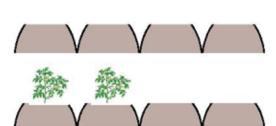
Application Method: Apply with a burndown herbicide labeled for the control of emerged weeds. *Valor* Herbicide, when used alone, will not provide satisfactory control of emerged weeds.

Use Restrictions for Preemergence Fallowbed Weed Control Prior To Transplanting

- Always read and follow all label directions when using any pesticide alone or in tank mix combinations.
- The top 4 inches of the bed, from a horizontal and vertical perspective, where the crop will be transplanted, must be removed prior to transplanting.
- Use only healthy transplants. Do not use on direct seeded crops.
- This use pattern makes no claim for in-season weed control after the beds have been disturbed.
- Do not apply when weather conditions favor spray drift.



Beds are formed and Valor Herbicide applied with a burndown herbicide.



A minimum of 2 months after *Valor* Herbicide application, the tops of the beds are removed and the soil from the tops of the beds is placed in the area between the beds.

Crops are transplanted into beds.

DIRECTIONS FOR USE IN DRY BEANS

Dried cultivars of bean (*Lupinus*); bean (*Phaseolus*) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (*Vigna*) (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean and lentil

WEED SUPPRESSION

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 oz of Valor per acre during a single application.
- Do not apply more than 2 oz of Valor per acre during a single growing season.

[Arizona, California, Colorado, Hawaii, Idaho, Montana, Nebraska, Oregon and Washington only: [For weed suppression in dry beans follow supplemental labeling provided by Valent U.S.A. Corporation.] [Arizona, California, Hawaii, Idaho, Montana, Oregon and Washington only:] [For weed suppression in garbanzo beans follow supplemental labeling provided by Valent U.S.A. Corporation.]

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near crop emergence, may result in dry bean injury in fields treated with *Valor*. On occasion this has resulted in a delay in maturity. User should assume these risks before using *Valor*.

TIMING TO DRY BEAN

Valor may be applied to dry beans within 2 days after planting for the preemergence suppression of the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity of *Valor* Herbicide or Table 8, Weeds Suppressed by Residual Activity of *Valor*. *Valor* should be tank mixed with other labeled herbicides for broad spectrum weed control.

TIMING TO WEEDS

Valor may be applied to dry beans prior to planting or preemergence (after planting). Preemergence application of *Valor* must be made within 2 days after planting and prior to dry bean emergence. To avoid severe crop injury, do not apply to dry beans after beans begin to crack or have emerged.

Preplant incorporation (PPI) applications may result in reduced weed control.

ADDITIONAL RESIDUAL GRASS CONTROL

Valor can be tank mixed with pendimethalin for additional grass control.

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of *Valor* per acre during a single application.
- Do not apply more than 3 oz of *Valor* per acre during a single growing season.
- Do not harvest within 5 days of application.

Desiccation from *Valor* requires the addition of an agronomically approved adjuvant to the spray mixture. A methylated seed oil which contains at least 15% emulsifiers and 80% oil at 2% v/v should be used. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lb/A or a 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to the spray mixture along with either a crop oil concentrate or methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for a crop oil concentrate or a methylated seed oil. Tank mixing *Valor* with glyphosate or paraquat will increase control of emerged weeds and aid in harvest. Add a burndown tank mix partner for the control of emerged weeds labeled for dry bean in accordance with the most restrictive labeled limitations and precautions.

TIMING TO DRY BEANS

Apply when crop is mature and at least 80% of the pods are yellowing and mostly ripe with no more than 40% (bush type beans) or 30% (vine type beans) of the leaves still green in color. Dry beans can be harvested 5 days after application. To ensure thorough coverage use 15 to 30 gallons spray solution per acre. Nozzle selection should meet manufacturer's gallonage and pressure recommendations for postemergence application.

[For Use in the States of Arizona, California and Hawaii Only]

RESTRICTIONS AND LIMITATIONS

- Use only on no-till or minimum tillage fields where last years crop residue has not been incorporated into the soil.
- Corn must be planted between 14 and 30 days after application unless the application is made as part of a Fall burndown program.
- Corn can be planted 7 days after an application of 2 oz/A if a minimum of 25% of the soil surface is covered with the residue of the preceding crop and a minimum of 1/4 inch of rainfall has occurred between application and planting.
- Do not apply more than [2 oz] [3 oz] of Valor per acre during a single growing season.
- Do not irrigate between emergence and 2-leaf corn.
- Do not use on popcorn, sweet corn or corn grown for seed.

TIMING TO FIELD CORN

- Apply Valor Herbicide, at 2 to 3 oz/A, between 7 and 30 days prior to planting field corn for the preemergence control of the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity of Valor Herbicide.
- Apply Valor Herbicide at 2 oz/A between 7 and 30 days prior to planting field corn if a minimum of 25% of the soil surface is covered with the residue of the preceding crop and a minimum of 1/4 inch of rainfall has occurred between application and planting.
- Apply *Valor* Herbicide at 3 oz/A between 14 and 30 days prior to planting field corn.

Burndown Use Directions – For Preplant Applications in Field Corn

Valor Herbicide, applied as part of a burndown program, may be used for residual weed control, as well as to assist in postemergence burndown of many weeds where field corn will be planted directly into the residue of the previous year. See Directions for Use in Fall and Spring Preplant Burndown and Fallow Seedbed Programs in Field Corn, Peanut and Soybean for rates and timing of applications. For control of emerged weeds, *Valor* Herbicide must be applied with an appropriate burndown tank mix partner listed in Table 6. 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 and recommended adjuvant systems.

INCREASING SPEED OF GLYPHOSATE BURNDOWN ACTIVITY

Valor Herbicide, at 1 oz/A, may be tank mixed with glyphosate (Roundup[®]) to increase the speed of burndown activity compared to glyphosate applied alone. Residual weed control will not be provided at rates lower than 2 oz/A; however, suppression of the weeds in Table 2 may occur at *Valor* Herbicide rates as low as 1 oz/A. Applications of *Valor* Herbicide at 1 oz/A must be made a minimum of 14 days prior to planting field corn.

TANK MIXES

Valor Herbicide may be tank mixed with the herbicides listed in Table 6 for pre-plant burndown applications. Refer to tank mix partner's label for adjuvant recommendations.

Table 6. Tank Mix Partners for Burndown and/or Residual Control of Weeds in Field Corn

TANK MIX PARTNERS ¹			
2,4-D LVE	metribuzin		
atrazine	paraquat		
Basis [®]	Python [®]		
dicamba	Resolve [®]		
Express [®]	simazine		
glyphosate	Weedmaster®		
Hornet [®]			

¹Refer to tank mix product labels for specific recommendations.

TANK MIX RESTRICTIONS

Tank mixes with flufenacet (Axiom or Domain), metolachlor or s-metolachlor (Dual Magnum or Dual II Magnum), dimethenamid or dimethenamid-p (Frontier or Outlook), alachlor (Lasso), or acetochlor (Surpass or Harness) may result in injury to field corn when application is followed by prolonged periods of cool wet weather and should not be used with *Valor* Herbicide, unless supplemental labeling, provided by Valent U.S.A. Corporation, is followed.

DIRECTIONS FOR USE IN FIELD PEAS

WEED CONTROL

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 2 oz of Valor Herbicide per acre during a single growing season.
- [For use in Idaho, Montana, Oregon and Washington only.]

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near crop emergence, may result in pea injury in fields treated with *Valor* Herbicide. On occasion this has resulted in a delay in maturity. User should assume these risks before using *Valor* Herbicide.

TIMING TO FIELD PEAS

Valor Herbicide may be applied to field peas within 2 days after planting for the preemergence control of the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity of *Valor* or Table 8, Weeds Suppressed by Residual Activity of *Valor*. Tank mix *Valor* Herbicide with other labeled herbicides for broad spectrum weed control.

TIMING TO WEEDS

Valor Herbicide may be applied to field peas prior to planting or preemergence (after planting). Preemergence application of *Valor* Herbicide must be made within 2 days after planting and prior to field pea emergence. To avoid severe crop injury, do not apply to field peas after peas begin to crack or have emerged.

Preplant incorporation (PPI) applications may result in reduced weed control.

ADDITIONAL RESIDUAL GRASS CONTROL

Valor Herbicide can be tank mixed with pendimethalin for additional grass control.

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 3 oz of Valor Herbicide per acre during a single growing season.
- Do not harvest within 5 days of application.

Desiccation from *Valor* Herbicide requires the addition of an agronomically approved adjuvant to the spray mixture. A methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 qt/A should be used. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lbs/A or a 28 to 32% nitrogen solution at 1 to 2 qts/A) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil. Tank mixing *Valor* Herbicide with glyphosate will increase control of emerged weeds and aid in harvest.

TIMING TO FIELD PEAS

Apply *Valor* Herbicide, at 1.5 to 2 oz/A, when crop is physiologically mature and a minimum of 80% of the pods are yellow to tan in color and 20% are yellow in color. If field peas are treated too early, a reduction in seed quality may occur. Do not spray *Valor* Herbicide on any area of the field with a significant amount of plants with green color. Peas can be harvested 5 days after application.

To ensure thorough coverage, use 15 to 30 gallons of spray solution per acre and select nozzle type using manufacturer's gallonage and pressure recommendations for postemergence application.

DIRECTIONS FOR USE IN FLAX

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 3 oz of Valor Herbicide per acre during a single growing season.
- Do not harvest within 5 days of application.

Desiccation from *Valor* Herbicide requires the addition of an agronomically approved adjuvant to the spray mixture. A methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 qt/A should be used. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lbs/A or a 28 to 32% nitrogen solution at 1 to 2 qts/A) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil.

TIMING TO FLAX

Apply *Valor* Herbicide, at 1.5 to 2 oz/A, when crop is physiologically mature and at least 75% of the bolls are brown in color. Flax can be harvested 5 days after application.

To ensure thorough coverage, use 15 to 30 gallons of spray solution per acre and select nozzle type using manufacturer's gallonage and pressure recommendations for postemergence application.

DIRECTIONS FOR USE IN FRUITING VEGETABLES

Includes: African eggplant; Bush Tomato; Bell Pepper; Cocona; Currant Tomato; Eggplant, Garden Huckleberry; Goji Berry; Groundcherry, Martynia; Naranjilla; Okra, Pea Eggplant; Pepino; Nonbell Pepper; Roselle; Scarlet Eggplant; Sunberry; Tomatillo; Tomato; Tree Tomato; cultivars, varieties and/or hybrids of these.

Many weather related factors, including high wind or heavy rains or cool conditions at or near crop transplanting, may result in crop injury in fields treated with *Valor* Herbicide. On occasion this has resulted in a delay in maturity. User should assume these risks before using *Valor* Herbicide.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 4 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 8 oz of *Valor* Herbicide per acre during a single growing season.

ROW MIDDLES

FOR DISTRIBUTION AND USE ONLY WHERE THIRD PARTY INDEMNIFACATION IS IN EFFECT PRECAUTIONS

- Plants should be grown on raised or plastic mulched beds that are higher than the treated row middle.
- Spray must be directed to the row middle, away from the crop bed and with minimal contact with plastic, including the sides of the bed. If top of mulch beds (where plants are to be transplanted) is contacted, severe injury can occur due to foliage contact with treated plastic. In this scenario, a rainfall event of 1/2 inch (natural or irrigation) must occur prior to transplanting to reduce *Valor* Herbicide residues.
- Injury can occur if soil particles treated with Valor Herbicide contact the crop.
- Irrigate treated field after application and prior to transplanting with minimum of 1/4 inch of water if rainfall does not occur between application and transplanting.
- All applications must be made with hooded or shielded equipment.

TIMING TO FRUITING VEGETABLES

Apply *Valor* Herbicide at 4 oz per acre as a hooded or shielded application to row middles up to 14 days prior to transplanting or seeding for preemergence control of the weeds listed in Table 7, Weeds Controlled by Residual Activity of *Valor* Herbicide, as well as to assist in the postemergence control of emerged weeds. A second application of *Valor* Herbicide at 4 oz per acre may be applied up to 21 days after transplanting or emergence if needed. Do not apply during or after bloom.

TIMING TO WEEDS

Valor Herbicide may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds in row middles. A registered preemergence grass herbicide may be added for control of additional grassy weeds. For assisting in the control of emerged weeds, tank mix Valor Herbicide with paraquat, Aim^{TM} or other registered burndown herbicide. Do not tank mix with glyphosate after transplanting or crop emergence. Refer to tank mix partner's label for recommended rate and application parameters.

FALLOWBED USE ON TRANSPLANTED PEPPER AND TOMATO BEDS

[For use in Arizona, California and Hawaii only]

VALOR HERBICIDE RATES	ADJUVANT	GPA	TRANSPLANTING INTERVAL
4 oz/A	Required by burndown tank mix partner	Ground – 20 to 40	2 Months

Application Method: Apply with a burndown herbicide labeled for the control of emerged weeds. *Valor* Herbicide, when used alone, will not provide satisfactory control of emerged weeds.

Use Precautions for Preemergence Fallowbed Weed Control Prior To Transplanting

- Always read and follow all label directions when using any pesticide alone or in tank mix combinations.
- Irrigate treated field after application and prior to transplanting with minimum of 1/4 inch of water if rainfall does not occur between application and transplanting.
- The top 4 inches of the bed, from a horizontal and vertical perspective, where the crop will be transplanted, must be removed prior to transplanting.
- Use only healthy transplants. Do not use on direct seeded crops.
- [On flat beds (tomato only), the soil must be incorporated to a depth of at least 4 inches, twice, prior to transplanting. Failure to incorporate may result in stand reduction and/or crop injury.]
- This use pattern makes no claim for in-season weed control after the beds have been disturbed.
- Do not apply when weather conditions favor spray drift.

DIRECTIONS FOR USE IN GARLIC

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 6 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 6 oz of Valor Herbicide per acre during a single growing season.

TIMING TO GARLIC

Valor Herbicide may be applied, at 6 oz/A, to garlic prior to garlic emergence. Application should be made within 3 days after planting garlic.

TIMING TO WEEDS

Preemergence – Preemergence To Weeds

Apply *Valor* Herbicide to weed free garlic for preemergence control of the weeds listed in Table 10, Weeds Controlled by Preemergence Application of *Valor* Herbicide.

DIRECTIONS FOR USE IN HOPS

[Not For Use in California or New York]

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 6 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 6 oz of Valor Herbicide per acre during a single growing season.
- Do not allow spray to contact green stem (unless used for sucker control), foliage, flowers or cones or unacceptable injury may occur.
- Do not apply within 30 days of harvest.
- Do not use with an adjuvant.

Valor Herbicide can be used in hops for preemergence weed control as well as sucker control.

TIMING TO HOPS FOR SUCKER CONTROL

Apply *Valor* Herbicide at 6 oz/A as a directed application after hops have reached a minimum of 6 feet in height for sucker control. Application should be directed to the lower 2 feet of the hops.

TIMING TO HOPS FOR PREEMERGENCE WEED CONTROL

Apply *Valor* Herbicide at 6 oz/A as a 1 to 1.5 foot band to each side of the hop row, to dormant hops November thru February to ensure time for rain incorporation and activation. If weeds are emerged at the time of application, tank mix *Valor* Herbicide with a labeled burndown herbicide such as paraquat or glyphosate to assist with control of emerged weeds. Do not mow or rake over treated areas, as dust created by mowing may drift onto sensitive crops or vegetation resulting in injury.

TIMING TO WEEDS

Valor Herbicide applications must be made prior to weed emergence for control of weeds listed in Table 10, Weeds Controlled by Preemergence Application of *Valor* Herbicide.

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* Herbicide, when applied according to label use directions, will control the weeds listed in Table 10, Weeds Controlled by Preemergence Application of *Valor* Herbicide. This label makes no claims concerning control of other weed species.

DIRECTIONS FOR USE IN LENTILS

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 3 oz of Valor Herbicide per acre during a single growing season.
- Do not harvest within 5 days of application.

Desiccation from *Valor* Herbicide requires the addition of an agronomically approved adjuvant to the spray mixture. A methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 qt/A should be used. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lb/A or a 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil. Tank mixing *Valor* Herbicide with glyphosate or paraguat will increase control of emerged weeds and aid in harvest.

TIMING TO LENTILS

Apply *Valor* Herbicide, at 1.5 to 2 oz/A, when crop is physiologically mature and a minimum of 80% of the pods are yellow to tan in color and 20% are yellow in color. If lentils are treated to early, a reduction in seed quality may occur. Do not spray *Valor* Herbicide on any area of the field with a significant amount of plants with green color. Lentils can be harvested 5 days after application.

To ensure thorough coverage, use 15 to 30 gallons of spray solution per acre and select nozzle type using manufacturer's gallonage and pressure recommendations for postemergence application.

DIRECTIONS FOR USE IN MINT (Peppermint and Spearmint)

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 4 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 8 oz of Valor Herbicide per acre during a single growing season.
- Do not make a sequential Valor Herbicide application within 60 days of the first Valor application.
- Apply only to dormant mint. Application to non-dormant mint may result in unacceptable crop injury.
- Do not apply within 80 days of harvest.

PRECAUTIONS

To avoid crop injury:

- Do not apply to stands established longer than 3 years.
- Do not apply [a Fall application] if roots and rhizomes are weak, thin or damaged.
- Do not apply *Valor* Herbicide on mint in Southern Union County (south of Ladd Canyon) or Baker County in Oregon.
- Do not apply to row or baby mint, use only on established meadow mint.
- Do not apply to mint that has been weakened by diseases, insects (example mint root borer), nematodes, drought, soil salts, high soil pH, previous pesticides, winter injury or double cutting, as severe injury may occur. Apply only to healthy vigorous mint with undamaged rhizomes.
- Do not apply before November 25 or after March 1.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near mint emergence, may result in mint injury in fields treated with *Valor* Herbicide. User should assume these risks before using *Valor* Herbicide.

Tank mixes with labeled rates of paraquat are recommended to control emerged weeds and increase crop safety.

TIMING TO MINT

As a spray, *Valor* Herbicide may be applied only to established, dormant mint for preemergence control of the weeds listed in Table 7 as well as to assist in the postemergence control of emerged weeds. Application to non-dormant mint or to baby (row) mint (time from planting of mint roots through the first cutting), may result in unacceptable crop injury. As a bulk fertilizer application, *Valor* Herbicide may be applied at least 80 days prior to harvest. Leaves must be dry at the time of applications or severe injury may occur.

TIMING TO WEEDS

Burndown – Dormant Mint, Postemergence To Weeds

Valor Herbicide may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where established mint is dormant. For control of emerged weeds, tank mix *Valor* Herbicide with paraquat. Refer to paraquat label for recommended rate and application parameters. To ensure thorough coverage, use a minimum of 15 gals. of spray solution per acre. *Valor* Herbicide tank mixes applied to assist in the control of emerged weeds must be applied with a non-ionic surfactant at 0.25% v/v. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lbs./A or 28 to 32% nitrogen solution at 1 to 2 qts./A) may be added to increase herbicidal activity.

Preemergence – Dormant Mint, Preemergence To Weeds

Apply *Valor* Herbicide to dormant mint for the preemergence control of weeds listed in Table 7. Fall applications of *Valor* Herbicide, followed by a sequential application in the Spring, have resulted in better Summer annual weed control than a single Fall or single Spring application.

Fall application is most effective for Fall germinating weeds such as groundsel. Fields plowed or harrowed after a *Valor* Herbicide application will result in less effective preemergence activity. In furrow irrigated fields, corrugating that is done after a *Valor* application will expose untreated soil and break the herbicide barrier resulting in poor weed control.

Table 7. Weeds Controlled by Residual Activity of Valor

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE
Bristly Starbur	Acanthospermum hispidum	Up to 5%	All Soil	4 oz/A
Carpetweed	Mollugo verticillata		Types	
Chickweeds				
Common	Stellaria media			
Mouseear	Cerastium vulgatum			
Coffee Senna	Cassia occidentalis			
Copperleaf, Hophornbeam	Acalypha ostryifolia			
Dandelion	Taraxacum officinale			
Dodder (suppression only) ¹	Cuscuta spp.			
Eclipta	Eclipta prostrate			
Evening Primrose, Cutleaf	Oenothera laciniata			
False Chamomile	Tripleurospermum maritima			
Fiddleneck, Coast	Amsinckia menziesii			
Field Pennycress	Thlaspi arvense			
Fleabane, Hairy	Conyza bonariensis			
Flixweed	Descurainia spophia			
Florida Beggarweed	Desmodium tortuosum			
Florida Pusley	Richardia scabra			
Golden Crownbeard	Verbesina encelioides			
Groundsel, Common	Senecio vulgaris			
Hairy Indigo	Indigofera hirsuta			
Hemp Sesbania	Sesbania exaltata			
Henbit	Lamium amplexicaule			
Jimsonweed	Datura stramonium			
Kochia	Kochia scoparia			
Lambsquarters, Common	Chenopodium album			
Little Mallow	Malva parviflora			
London Rocket	Sisymbrium irio			
Marestail/Horseweed	Conyza canadensis			
Mayweed/False Chamomile	Matricaria maritima			

continued

¹Valor Herbicide at 4 oz/A will provide postemergence dodder suppression when applied in combination with Pursuit Herbicide or Raptor Herbicide at labeled rates. The use of Pursuit Herbicide and Raptor Herbicide require the use of a NIS, which will result in burn and stunting of alfalfa. Growers should expect and accept this prior to using this tank mix.

Table 7. Weeds Controlled by Residual Activity of Valor (continued)

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE
Morningglories		Up to 5%	All Soil	4 oz/A
Entireleaf	Ipomoea hederacea var. integriuscula	┦ '	Types	
lvyleaf	Ipomoea hederacea	7	, ,	
Red/Scarlet	Ipomoea coccinea	1		
Smallflower	Jacquemontia tamnifolia	7		
Tall	Ipomoea purpurea	7		
Mustard		7		
Tansy	Descurainia pinnata	1		
Tumble	Sisymbrium altissimum			
Wild	Brassica kaber			
Nettle, Burning	Urtica urens			
Nightshades				
Black	Solanum nigrum			
Eastern Black	Solanum ptycanthum	-		
Hairy	Solanum sarrachoides			
Pigweeds	Columnia Garracifoldes	-		
Palmer Amaranth	Amaranthus palmeri			
Redroot	Amaranthus retroflexus	-		
Smooth	Amaranthus hybridus	_		
Spiny Amaranth	Amaranthus riyondus Amaranthus spinosus	-		
Tumble	Amaranthus albus	-		
		_		
Prickly Lettuce	Lactuca serriola			
(China Lettuce)	Side eninese	-		
Prickly Sida (Teaweed)	Sida spinosa	-		
Sowthistle, Prickly	Sonchus asper	_		
Puncturevine	Tribulus terrestris	_		
Purslane	Devision of the second			
Common	Portulaca oleracea	_		
Horse	Trianthema portulacastrum			
Radish, Wild	Raphanus raphanistrum	_		
Ragweed, Common	Ambrosia artemisiifolia	_		
Redmaids	Calandrinia ciliata var. menziesii			
Russian Thistle	Salsola iberica			
Shepherd's-purse	Capsella bursa-pastoris			
Smartweeds				
Ladysthumb	Polygonum persicaria			
Pennsylvania	Polygonum pensylvanicum			
Smellmelon	Cucumis melo			
Spotted Spurge	Euphorbia maculata			
Spurred Anoda	Anoda cristata			
Tropic Croton	Croton glandulosus			
Velvetleaf	Abutilon theophrasti			
Venice Mallow	Hibiscus trionum			
Waterhemps				
Common	Amaranthus rudis			
Tall	Amaranthus tuberculatus			
White Cockle	Silene latifolia			
Wild Poinsettia	Euphorbia heterophylla			
Wormwood, Biennial	Artemisia biennis			
Yellow Rocket	Barbarea vulgaris	7		

continued

Table 7. Weeds Controlled by Residual Activity of *Valor* (continued)

BROADLEAF WEED SPECIES					
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE	
GRASS WEED SPECIES		Up to 5%	All Soil	4 oz/A	
Barnyardgrass	Echinochloa crus-galli		Types		
Bluegrass, Annual	Poa annua				
Crabgrass, Large	Digitaria sanguinalis				
Foxtail, Giant	Setaria faberi				
Goosegrass	Eleusine indica				
Lovegrass, California	Eragrostis diffusa				
Panicums					
Fall	Panicum dichotomiflorum				
Texas	Panicum texanum				
Ryegrass, Italian	Lolium multiflorum				
Signalgrass, Broadleaf	Brachiaria platyphylla				

DIRECTIONS FOR USE IN ONION (DRY BULB)

[For Use in the States of Michigan, New York, North Dakota and Wisconsin Only]

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 3 oz of Valor Herbicide per acre during a single growing season.
- Do not make sequential application within 14 days of the first application.
- Do not apply within 45 days of harvest.

PRECAUTIONS

- Do not apply more than 1 oz of *Valor* Herbicide per season on soils that contain greater than 90% sand plus gravel.
- Do not apply as part of a tank mix, other than with Prowi® H₂O, or unacceptable injury may result. Other formulations of pendimethalin should not be tank mixed with *Valor* Herbicide for use in onions.
- Do not apply with any type of adjuvant.

Use of *Valor* Herbicide may result in necrotic spotting of onion leaves that come in contact with the spray. User should assume this potential crop response before using *Valor* Herbicide.

[Microrate Application]

[Sequential applications of *Valor* Herbicide may be applied to onions (dry bulb), between the 2-leaf and 6-leaf stage, at rates of 0.5 to 1 oz/A, on a 7 day interval.]

TIMING TO ONIONS (dry bulb)

Apply *Valor* Herbicide to transplanted onions (dry bulb) between the 2-leaf and 6-leaf stage and on direct seed onions (dry bulb) between the 3-leaf and 6-leaf stage.

TIMING TO WEEDS

Preemergence – Emerged Onions (dry bulb), Preemergence To Weeds

Apply Valor Herbicide to weed free onions (dry bulb) for preemergence control of the weeds listed in Table 1, Section A.

DIRECTIONS FOR USE IN PEANUT

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of *Valor* Herbicide per acre during a single growing season.
- Do not irrigate when peanuts are cracking.
- Do not graze treated fields or feed treated hay to livestock.

PRECAUTIONS

• [Do not apply more than 2 oz/A in the states of North Carolina, Oklahoma or Virginia where climatic conditions may result in unacceptable injury to peanuts, unless supplemental labeling, provided by Valent U.S.A. Corporation, is followed.]

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near peanut emergence, may result in peanut injury in fields treated with *Valor* Herbicide On occasion this has resulted in a delay in maturity or even a slight decrease in yield.

WIND MANAGEMENT

In areas where shallow cultivation is used between rows to reduce wind-borne sand damage to peanuts, weed control from *Valor* Herbicide may be reduced.

TIMING TO PEANUTS

Valor Herbicide may be applied to peanuts prior to planting or preemergence (after planting). Preemergence applications of Valor Herbicide must be made within 2 days after planting and prior to peanut emergence. Application after the peanuts have begun to crack, or are emerged, will result in severe crop injury. Application should not be made when peanuts have begun to crack. Select Valor Herbicide rate from Table 1 according to anticipated weed spectrum.

TIMING TO WEEDS

Burndown – Preemergence to Peanuts, Postemergence to Weeds

Valor Herbicide, applied as part of a burndown program, may be used for residual 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 Herbicide before planting, during planting or after planting, but before the crop emerges. For control of emerged weeds, tank mix Valor Herbicide 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 Herbicide tank mixes applied to assist in the control of emerged weeds must be applied with an adjuvant, such as a non-ionic surfactant at 0.25% v/v or a crop oil concentrate or a methylated seed oil at 1 to 2 pt/A. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lb/A or 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to increase herbicidal activity.

Preemergence (conventional tillage) applications of *Valor* Herbicide must be applied prior to weed emergence.

ADDITIONAL RESIDUAL GRASS CONTROL: SEQUENTIAL

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

ADDITIONAL RESIDUAL GRASS CONTROL: TANK MIXED

Valor Herbicide can be tank mixed with alachlor, metolachlor or FRONTIER for additional grass and broadleaf weed control. *Valor* Herbicide 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.

DIRECTIONS FOR USE IN POTATO

[Arizona, California, Colorado, Delaware, Florida, Hawaii, Idaho, Maryland, Minnesota, Montana, Nebraska, Nevada, New Jersey, New Mexico, North Carolina, North Dakota, Oregon, South Carolina, South Dakota, Texas, Utah, Virginia, Washington, Washington DC and Wyoming only.]

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 1.5 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 1.5 oz of *Valor* Herbicide per acre during a single growing season.
- Do not apply to Rill (Furrow) irrigated potatoes

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near potato emergence, may result in potato injury in fields treated with *Valor* Herbicide. On occasion this has resulted in a delay in maturity. User should assume these risks before using *Valor* Herbicide.

TIMING TO POTATOES

Valor Herbicide may be applied to potatoes after hilling for the preemergence suppression of the weeds listed in Table 8. *Valor* Herbicide should be tank mixed with other labeled herbicides for broad spectrum weed control. A minimum of 2 inches of settled soil must cover the vegetative portion of the potato plant at the time of *Valor* Herbicide application. Application to potatoes with less than 2 inches of soil covering the vegetative portion of the potato may result in crop injury. In areas with historically higher amounts of rainfall during the time of preemergence herbicide applications, such as the Red River Valley, Minnesota and North Dakota, the requirement for 2 inches of settled soil is critical to avoid crop injury. Mechanical incorporation of *Valor* Herbicide will result in decreased weed control and should be avoided. In areas with sprinkler irrigation, *Valor* Herbicide should be incorporated with 0.5 to 0.75 inches of irrigation, after application and before <u>any</u> sprouts are within 2 inches of the settled soil surface if a rainfall event has not yet occurred.

TIMING TO WEEDS

Preemergence – Soil Covered Potatoes, Preemergence To Weeds

Apply *Valor* Herbicide to soil covered potatoes for the preemergence suppression of the weeds listed in Table 8. Harrowing, cultivation or corrigating after *Valor* Herbicide application will reduce weed control.

Table 8. Weeds Suppressed by Residual Activity of Valor Herbicide at 1.5 oz/A

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	VALOR HERBICIDE RATE
Lambsquarters, Common	Chenopodium album	Up to 5%	1.5 oz/A
Mustard, Wild	Brassica kaber		
Nightshades			
Black	Solanum nigrum		
Eastern Black	Solanum ptycanthum		
Hairy	Solanum sarrachoides		
Pigweeds			
Palmer Amaranth	Amaranthus palmeri		
Redroot	Amaranthus retroflexus		
Smooth	Amaranthus hybridus		
Spiny Amaranth	Amaranthus spinosus		
Tumble	Amaranthus albus		
Prickly Lettuce	Lactuca serriola		
(China Lettuce)			
Radish, Wild	Raphanus raphanistrum		

DIRECTIONS FOR USE IN SOYBEAN

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of Valor Herbicide per acre during a single growing season.
- Graze treated fields or feed treated hay to livestock no sooner than 21 days after application.

PRECAUTIONS

- Do not tank mix Valor Herbicide with flufenacet (Axiom[®], Domain[®]), metolachlor (Dual[®] Magnum, Dual [®]II Magnum, Boundary[®]) or dimethenamid (Frontier[®] or Outlook[®]) within 14 days of planting soybeans, unless soybeans are planted under no-till or minimum tillage conditions on wheat stubble or no-till field corn stubble.
- Do not irrigate when soybeans are cracking.

TIMING TO SOYBEANS

Valor Herbicide may be applied to soybeans prior to planting or preemergence (after planting). Preemergence application of *Valor* Herbicide must be made within 3 days after planting and prior to soybean emergence. Application after the soybeans have begun to crack, or are emerged, will result in severe crop injury. Application should not be made when soybeans have begun to crack. Select *Valor* Herbicide rate from Table 1 according to anticipated weed spectrum.

TIMING TO WEEDS

Burndown – Preemergence to Soybeans, Postemergence to Weeds

Valor Herbicide, applied as part of a burndown program, may be used for residual 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 9. Apply *Valor* Herbicide with ground equipment before planting, during planting or within 3 days after planting, **but before the crop emerges**. To ensure thorough coverage, use a minimum of 15 gal of spray solution per acre. Refer to tank mix partner's label for recommended application pressure. All *Valor* Herbicide tank mixes applied to assist in the control of emerged weeds must be applied with crop oil concentrate or methylated seed oil at 1 to 2 pt/A or a non-ionic surfactant at 0.25% v/v.

INCREASING SPEED OF GLYPHOSATE BURNDOWN ACTIVITY

Valor Herbicide, at rates as low as 1 oz/A, may be tank mixed with glyphosate (ROUNDUP[®]) to increase the speed of burndown activity compared to glyphosate applied alone. Residual weed control will not be provided at rates lower than 2 oz/A; however, suppression of the weeds in Table 2, may occur at *Valor* Herbicide rates as low as 1 oz/A.

TANK MIXES

Valor Herbicide may be tank mixed with the herbicides listed in Table 9 for increased burndown activity, additional residual broadleaf and/or additional grass control. Refer to tank mix partner's label for adjuvant recommendations.

Table 9. Tank Mix Partners for Control of Emerged Weeds in Reduced Tillage Soybeans

TANK MIX PARTNER	TARGET WEEDS ¹
2,4-D LVE	Marestail
	Giant Ragweed
	Dandelion
paraquat	Annual Grasses
	Henbit
glyphosate	General Burndown
Select Max [®]	Annual Grasses
SCEPTER® 70 DG	Cocklebur
	Common Sunflower
Weedmaster®	Marestail
	Giant Ragweed
	Dandelion

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

ADDITIONAL RESIDUAL BROADLEAF CONTROL

Valor Herbicide can be tank mixed with metribuzin, FIRSTRATE[®], LOROX[®], PURSUIT[®], PYTHON[®], SQUADRON[®], SCEPTER or STEEL[®] for additional broadleaf control.

ADDITIONAL RESIDUAL GRASS CONTROL

Valor Herbicide can be tank mixed with pendimethalin or COMMAND[®] for additional grass control. [In the states of *(Note to EPA Reviewer: specific states will be listed here) Valor* Herbicide can be tank mixed with microencapsulated acetochlor (WARRANT®) at 2 oz per acre.] [Tank mixes with flufenacet (AXIOM or DOMAIN), metolachlor (DUAL products or BOUNDARY) or dimethenamid (FRONTIER or OUTLOOK) 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* Herbicide][, unless supplemental labeling, provided by Valent U.S.A. Corporation, is followed.]

ROUNDUP READY PROGRAM

Valor Herbicide may be applied as part of a burndown program or preemergence in conventional tillage programs, 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 2 and 3 in ROUNDUP READY programs. A sequential post emergence application of glyphosate will be required to control weeds not controlled by *Valor* Herbicide.

DIRECTIONS FOR USE IN STRAWBERRY

RESTRICTIONS AND LIMITATIONS:

- Do not apply more than 3 oz of Valor Herbicide per acre per application.
- Do not apply more than 3 oz of *Valor* Herbicide per acre during a single growing season.

PRECAUTIONS

- *Valor* Herbicide, at 3 oz per acre, can be applied to the soil a minimum of 30 days prior to transplanting strawberries provided the strawberries will be transplanted through a plastic mulch.
- Valor Herbicide at 3 oz per acre can be applied to dormant (established or newly planted) strawberries for the
 preemergence control of the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity of
 Valor Herbicide.
- Valor Herbicide, at 3 oz per acre, can be applied in strawberry row middles with a shielded or hooded sprayer
 for the preemergence control of the weeds listed in Table 1, Broadleaf Weeds Controlled by Residual Activity
 of Valor Herbicide.

Application Method	Minimum Time From Application to Harvest (PHI)	Use Rate Per Acre Per Application (oz)	Use Rate Per Acre Per Year (oz)	Special Use Instructions
Pre-transplant	Not applicable	3	3	Apply a minimum of 30 days prior to transplanting and prior to plastic mulch being laid. Apply as part of a tank mix to control emerged weeds.
Preemergence to dormant strawberries	Not applicable	3	3	Crop oil concentrate, at 1% v/v, or non-ionic surfactant, at 0.25% v/v, may be added to help control emerged broadleaf weeds.
Hooded or shielded sprayer application to row middles	Do not apply after fruit set	3	3	Apply only to row middles - do not apply over strawberries. Apply prior to weed emergence. Crop spotting may occur if an adjuvant is added. Application after fruit set may result in spotting of fruit and should be avoided. Do not allow spray drift to come in contact with fruit or foliage

Table 10. Weeds Controlled by Preemergence Application of Valor Herbicide

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE
				RATE
Bristly Starbur	Acanthospermum hispidum	Up to 10% ¹	All Soil	Asparagus,
Carpetweed	Mollugo verticillata		Types ²	Caneberries,
Chickweeds	T 0: " : "			Garlic, Hops
Common	Stellaria media			6 oz/A
Mouseear	Cerastium vulgatum			Sugaraana
Coffee Senna	Cassia occidentalis			Sugarcane 6 to 8 oz/A
Dandelion	Taraxacum officinale			0 10 6 0Z/A
Eclipta	Eclipta prostrata			Bushberries,
Eveningprimrose, Cutleaf	Oenothera laciniata			Cactus,
False Chamomile	Tripleurospermum maritima			Citrus Fruit,
Filaree				Grapes,
Redstem	Erodium cicutarium			Nut Trees,
Whitestem	Erodium moschatum			Olive.
Fiddleneck, Coast	Amsinckia menziesii			Pome Fruit,
Fleabane, Hairy	Conyza bonariensis			Pomegranate,
Field Pennycress	Thlaspi arvense			Stone Fruit,
Florida Beggarweed	Desmodium tortuosum			and Non-
Florida Pusley	Richardia scabra			Bearing Fruit
Golden Crownbeard	Verbesina encelioides			Trees
Groundsel, Common	Senecio vulgaris			6 to 12 oz/A ²
Hairy Indigo	Indigofera hirsuta			
Hemp Sesbania	Sesbania exaltata			To Maintain
Henbit	Lamium amplexicaule			Bare Ground
Jimsonweed	Datura stramonium			on Non-Crop
Kochia	Kochia scoparia			Areas of
Lambsquarters, Common	Chenopodium album			Farms,
Mallow				Orchards &
Common (Cheeseweed)	Malva neglecta			Vineyards
Little				6 to 12 oz/A.
Horseweed/Marestail	Conyza canadensis			
Mayweed/False Chamomile	Matricaria maritima			
Morningglories				
Entireleaf	Ipomoea hederacea var.			
	integriuscula			
lvyleaf				
Red/Scarlet	Ipomoea coccinea			
Smallflower	Jacquemontia tamnifolia			
Tall	Ipomoea purpurea			

continued

 ¹Valor Herbicide can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.
 ²A maximum Valor Herbicide rate of 6 oz/A per application should be used on any soil that has a sand plus gravel content

over 80% if bushes, trees or vines are under 3 years of age.

Table 10. Weeds Controlled by Preemergence Application of Valor Herbicide (continued)

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE
Mustards		Up to 10% ¹	All Soil	Asparagus,
London Rocket	Sisymbrium irio	╡ '	Types ²	Caneberries,
Tansey	Desurainia pinnata			Garlic, Hops
Tumble	Sisymbrium altissimum			6 oz/A
Wild	Brassica kaber			
Nettle, Burning	Urtica urens			Sugarcane
Nightshades	•			6 to 8 oz./A
Black	Solanum nigrum			
Eastern Black	Solanum ptycanthum			Bushberries,
Hairy	Solanum sarrachoides			Cactus,
Pigweeds				Citrus Fruit,
Palmer Amaranth	Amaranthus palmeri			Grapes,
Redroot	Amaranthus retroflexus			Nut Trees, Olive
Smooth	Amaranthus hybridus			Pome Fruit,
Spiny Amaranth	Amaranthus spinosus			Pomegranate
Tumble	Amaranthus albus			Stone Fruit,
Prickly Lettuce	Lactuca serriola			and Non- Bearing Fruit
(China Lettuce)				
Prickly Sida (Teaweed)	Sida spinosa			Trees
Puncturevine	Tribulus terrestris			6 to 12 oz/A ²
Purslane				
Common	Portulaca oleracea			To Maintain
Horse	Trianthema portulacastrum			Bare Ground
Radish, Wild	Raphanus raphanistrum			on Non-Crop
Ragweed, Common	Ambrosia artemisiifolia			Areas of
Redmaids	Calandrinia ciliata var menziessi.			Farms,
Redweed	Melochia corchorifolia			Orchards &
Shepherd's-purse	Capsella bursa-pastoris			Vineyards
Smellmelon	Cucumis melo			6 to 12 oz/A
Sowthistle, Annual ³	Sonchus oleraceus			
Spotted Spurge	Euphorbia maculata			
Spurred Anoda	Anoda cristata			
Thistle, Russian	Salsola iberica			
Tropic Croton	Croton glandulosus			
Venice Mallow	Hibiscus trionum			
Waterhemps				
Common	Amaranthus rudis			
Tall	Amaranthus tuberculatus			
Wild Poinsettia	Euphorbia heterophylla			
White Cockle	Silene latifolia			
Wormwood, Biennial	Artemisia biennis			
Yellow Rocket	Barbarea vulgaris			

continued

¹Valor Herbicide can be used on soils with greater than 10% organic matter; however, length of residual control may be

shorter than on soils with lower organic matter content.

A maximum *Valor* Herbicide rate of 6 oz./A per application should be used on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are under 3 years of age. ³Except CA

Table 10. Weeds Controlled by Preemergence Application of Valor Herbicide (continued)

BROADLEAF WEED SPECIES				
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE
GRASS WEED SPECIES		Up to 10% ¹	All Soil	Asparagus,
Barnyardgrass	Echinochloa crus-galli		Types ²	Caneberries,
Bluegrass, Annual	Poa annua			Garlic, Hops 6 oz/A
Crabgrass	·			0 02/A
Large	Digitaria sanquinalis			Sugarcane
Smooth	Digitaria ischaemum			6 to 8 oz/A
Foxtails				0 10 0 02/11
Bristly	Setaria verticillata			Bushberries,
Giant	Setaria faberi			Cactus,
Green	Setaria viridis			Citrus Fruit,
Yellow	Setaria glauca			Grapes,
Goosegrass	Eleusine indica			Nut Trees,
Guineagrass	Panicum maximum			Olive,
Johnsongrass, Seedling	Sorghum halepense			Pome Fruit, Pomegranate,
Lovegrass, California	Eragrostis diffusa			Stone Fruit and
Panicum				Non-Bearing
Fall	Panicum dichotomiflorum			Fruit Trees
Texas	Panicum texaum			6 to 12 oz/A ²
Ryegrass, Italian	Lolium multiflorum			To Maintain
Signalgrass, Broadleaf	Brachiaria platyphylla			To Maintain Bare Ground on Non-Crop
				Areas of
				Farms,
				Orchards &
				Vineyards
				6 to 12 oz/A

¹Valor Herbicide can be used on soils with greater than 10%; however, length of residual control may be shorter than on soils with lower organic matter content.

A maximum *Valor* Herbicide rate of 6 oz/A per application should be used on any soil that has a sand plus gravel content

over 80% if bushes, trees or vines are under 3 years of age.

DIRECTIONS FOR USE IN SUGARCANE

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 8 oz of *Valor* per acre per application.
- Do not make a sequential application within 14 days of the first application.
- Do not apply more than 12 oz of Valor per acre during a single growing season.
- Do not apply within 90 days of harvest.

TIMING TO SUGARCANE

Valor may be applied from 2 weeks prior to planting to before the sugarcane emerges, post directed or at layby. Select the proper *Valor* rate from Table 10 according to anticipated weed spectrum and soil organic matter content for preemergence applications. Select *Valor* rate from Table 11 according to emerged weed spectrum and weed heights for post-directed and layby applications.

TIMING TO WEEDS

Burndown - Preemergence to Sugarcane, Postemergence to Weeds

Valor may be used for preemergence control, and to assist in postemergence burndown, of many annual broadleaf weeds in sugarcane. For control of emerged weeds, choose the most appropriate tank mix partner from Table 12. Apply *Valor* **before the crop emerges**. To ensure thorough coverage, use a minimum of 15 gal of spray solution per acre. 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 Original Max (glyphosate), may be formulated with a suitable adjuvant and do not require additional adjuvant.

Preemergence - Preemergence to Sugarcane, Preemergence to Weeds

Valor may be used for preemergence control of many annual broadleaf and grassy weeds in sugarcane. Select rate based on anticipated weed spectrum and soil organic matter content from Table 10. Apply *Valor* **before the crop emerges**.

Post-Directed – Postemergence to Sugarcane, Postemergence to Weeds

Post-directed applications should only be made to upright sugarcane varieties after the sugarcane has exceeded 24 inches in height and has begun to joint. Post-directed applications should not be made to "PINEAPPLE" varieties. Post-directed applications to "PINEAPPLE" varieties or to upright varieties that have not exceeded 24 inches in height and have not begun to joint, may result in unacceptable crop injury. To ensure thorough coverage, use a minimum of 15 gal of spray solution per acre. Post-directed applications of *Valor* must include a crop oil concentrate or methylated seed oil at 1 qt/A or a non-ionic surfactant at 0.25% v/v. Select the proper *Valor* rate based on weed spectrum and weed height from Table 11.

Layby - Postemergence to Sugarcane, Postemergence to Weeds

Layby applications can be made to upright and "PINEAPPLE" varieties after the sugarcane has exceeded 30 inches in height and the spray solution will not contact foliage above 6 inches from the base of the sugarcane. To ensure thorough coverage, use a minimum of 15 gal of spray solution per acre. Layby applications of *Valor* 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. Select the proper *Valor* rate based on weed spectrum and weed height from Table 11.

Table 11. Broadleaf Weeds Controlled by Post-Directed or Layby Application of Valor in Sugarcane

BROADLEAF WEED SPECIES		WEED HEIG	WEED HEIGHT (inches)	
COMMON NAME	SCIENTIFIC NAME	3 oz/A	4 oz/A	
Bindweed, Field ¹	Convolvulus arvensis	4	8	
Carpetweed	Mollugo verticillata	4	4	
Cocklebur, Common	Xanthium strumarium	4	4	
Florida Beggarweed	Desmodium tortuosum	2	2	
Hemp Sesbania	Sesbania exaltata	6	8	
Jimsonweed	Datura stramonium	4	4	
Lambsquarters, Common	Chenopodium album	4	4	
Morningglories			,	
Entireleaf	Ipomoea hederacea var. integriuscula	-	4	
Ivyleaf	Ipomoea hederacea	4	4	
Pitted	Ipomoea lacunosa	4	6	
Red	lpomoea coccinea	-	4	
Tall	Ipomoea purpurea	2	4	
Mustard, Wild	Brassica kaber	6	6	
Pigweeds				
Palmer Amaranth	Amaranthus palmeri	4	6	
Redroot	Amaranthus retroflexus	4	6	
Smooth	Amaranthus hybridus	4	6	
Plaintain, Broadleaf	Plantago major	6	6	
Prickly Sida	Sida spinosa	4	6	
Purslanes				
Common	Portulaca oleracea	2	4	
Rock	Calandrinia spp.	-	2	
Ragweeds				
Common	Ambrosia artemisiifolia	2	2	
Giant	Ambrosia trifida	4	4	
Rice Flatsedge	Cyperus iria	2	4	
Sicklepod	Senna obtusifolia	4	4	
Smartweeds			-	
Ladysthumb	Polygonum persicaria	4	4	
Pale	Polygonum lapathifolium	4	4	
Pennsylvania	Polygonum pensylvanicum	4	4	
Spotted Spurge	Euphorbia maculata	4	4	
Velvetleaf	Abutilon theophrasti	4	6	
Venice Mallow	Hibiscus trionum	2	2	
Waterhemps		_		
Common	Amaranthus rudis	2	2	
Tall	Amaranthus tuberculatus	2	2	
1 411	7 II Tararitiao taboroalatao			

Valor tank mixes will only control the above ground portion of field bindweed. Repeated applications will be needed to control regrowth.

TANK MIXES

Valor may be tank mixed with the herbicides listed in Table 12 for additional weed control in burndown, preemergence, post-directed and layby applications. Refer to tank mix partner's label for adjuvant recommendations.

Table 12. Tank Mixes with Valor for Post-Directed or Layby Use in Sugarcane

TANK MIX PARTNER ¹	TARGET WEEDS	BURNDOWN	POST- DIRECTED ²	LAYBY
2,4-D amine	Annual and Perennial Broadleaf Weeds	X		
atrazine	Pigweeds Cocklebur	Х	Х	Х
Asulox ^{®3}	Annual Grasses		Х	Х
Evik®4	Annual Grasses		Х	Х
glyphosate ⁵	Annual and Perennial Weeds	Х		Х
metribuzin ⁶	Broadleaf Panicum Goosegrass		X	Χ
Sempra [®]	Purple Nutsedge Yellow Nutsedge	Х	Х	Х
Weedmaster [®]	Annual and Perennial Broadleaf Weeds	Х		

¹Refer to tank mix product labels for specific recommendations for control of emerged weeds present not listed in Table 11.

ADDITIONAL PREEMERGENCE BROADLEAF CONTROL

Valor can be tank mixed with atrazine or diuron for additional preemergence broadleaf control.

ADDITIONAL PREEMERGENCE GRASS CONTROL

Valor can be tank mixed with PROWL (or other pendimethalin products) for additional preemergence grass control provided sugarcane has not emerged.

²Post-directed applications should only be made to upright sugarcane varieties after the sugarcane has exceeded 24 inches in height. Post-directed applications should not be made to "PINEAPPLE" varieties. Post-directed applications to "PINEAPPLE" varieties or to upright varieties that have not exceeded 24 inches in height may result in unacceptable crop injury.

³ Apply to sugarcane at least 24 inches tall.

⁴ Apply before weeds are greater than 6 inches tall.

⁵ Glyphosate applications must be made with a hooded sprayer. Sugarcane must be at least 3 ft tall. Contact with the sugarcane foliage by either the spray mixture or the treated weed foliage will result in sugarcane injury.

⁶ Refer to metribuzin label for restrictions based on soil type.

DIRECTIONS FOR USE IN SUNFLOWER AND SAFFLOWER

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 3 oz of *Valor* Herbicide per acre during a single growing season.
- Do not harvest within 5 days of application.

Desiccation from *Valor* Herbicide requires the addition of an agronomically approved adjuvant to the spray mixture. A methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 qt/A should be used. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lb/A or a 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil. Tank mixing *Valor* Herbicide with glyphosate or paraquat will increase control of emerged weeds and aid in harvest for sunflowers. Tank mixing *Valor* Herbicide with glyphosate will increase control of emerged weeds and aid in harvest for safflower.

TIMING TO SUNFLOWER AND SAFFLOWER

Apply *Valor* Herbicide, at 1.5 to 2 oz/A, when crop is mature (when seed is 35% moisture or less). For many varieties, this is when the backs of the heads are turning yellow and the bracts are turning brown. Sunflower and safflower can be harvested 5 days after application.

To ensure thorough coverage, use 15 to 30 gallons of spray solution per acre and select nozzle type using manufacturer's gallonage and pressure recommendations for postemergence application.

DIRECTIONS FOR USE IN SWEET POTATO

[For Use in the States of Arizona, California and Hawaii Only]

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of *Valor* per acre during a single growing season.
- Do not apply postemergence to sweet potatoes.
- Do not use greenhouse grown transplants.
- Do not use transplants harvested more that 2 days prior to transplanting.
- Do not use on any sweet potato variety other than "BEAUREGARD", unless user has tested *Valor* on other variety and has found crop tolerance to be acceptable.
- Do not apply as a part of any tank mix, except with labeled rates of COMMAND, if tank mix is applied prior to transplanting.

TIMING TO SWEET POTATOES

Valor must be applied prior to transplanting sweet potatoes.

TIMING TO WEEDS

Preemergence To Weeds

Apply *Valor* to soil prior to transplanting sweet potato slips for the preemergence control of the weeds listed in Table 1.

DIRECTIONS FOR USE IN WHEAT

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 2 oz of *Valor* Herbicide per acre during a single growing season.

PRE-PLANT APPLICATIONS, PRE-EMERGENCE WEED CONTROL

[For use in the states of DE, ID, KY, MD, MN, MT, NC, ND, NJ, OR, PA, SC, SD, TN, VA, WA and WI Only]

RESTRICTIONS AND LIMITATIONS

- For pre-plant weed control, use only on no-till or minimum tillage fields where the previous year's crop
 residue has not been incorporated into the soil.
- [Plant wheat no sooner than 7 days after Valor Herbicide application in the states of DE, ID, KY, MD, MN, MT, NC, ND, NJ, OR, PA, SC, SD, TN, VA, WA or WI]
- [Plant wheat no sooner than 14 days after Valor Herbicide application in the states of DE, ID, KY, MD, MN, MT, NC, ND, NJ, OR, PA, SC, SD, TN, VA, WA or WI]
- [Do not use on Durum wheat.]
- Do not irrigate between emergence and spike.
- Wheat must be planted a minimum of 1" deep.
- Do not graze until wheat has reached 5 inches in height.

Burndown Use Directions

Valor Herbicide, applied as part of a burndown program, at 2 oz/A, may be used for residual weed control, as well as to assist in postemergence burndown of many weeds where wheat will be planted directly into the residue of the previous crop. See Directions for Use in Fall Burndown Programs in Fields to be Planted to Barley, Field Pea, Flax, Lentil, Safflower, Sunflower and Spring Wheat for rates and timing of applications. For control of emerged weeds, *Valor* Herbicide must be applied with an appropriate burndown tank mix partner. 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 and recommended adjuvant systems.

[POST-PLANT, PRE-EMERGENCE WEED CONTROL]

[RESTRICTIONS AND LIMITATIONS]

- For post-plant, pre-emergence weed control, use only on no-till or minimum tillage fields where the previous crop residue has not been incorporated into the soil.
- Apply Valor Herbicide up to 2 days after planting.
- [Do not use on Durum wheat.]
- Do not irrigate between emergence and spike.
- Wheat must be planted a minimum of 1" deep.
- Do not graze until wheat has reached 5 inches in height.

Use Directions

Valor Herbicide, applied at 2 oz/A, may be used for residual weed control, where wheat has been planted directly into the residue of the previous year. Application must be made no later than 2 days after planting.]

HARVEST AID

RESTRICTIONS AND LIMITATIONS

Do not harvest within 10 days of application.

Use Directions

Valor Herbicide, applied at 2 oz/A for desiccation requires the addition of an agronomically approved adjuvant to the spray mixture. Use a methylated seed oil which contains at least 15% emulsifiers and 80% oil at 1 qt/A. A spray grade nitrogen source (either ammonium sulfate at 2 to 2.5 lbs/A or a 28 to 32% nitrogen solution at 1 to 2 qts/A) may be added to the spray mixture along with methylated seed oil to enhance desiccation. The addition of a nitrogen source does not replace the need for methylated seed oil. Tank mixing *Valor* Herbicide with glyphosate will increase control of emerged weeds and aid in harvest.

To ensure thorough coverage, use a minimum of 10 gallons spray solution per acre by ground application and a minimum of 5 gallons per acre by aerial application. Nozzle selection should meet manufacturer's gallonage and pressure recommendations for postemergence application.

TIMING TO WHEAT

Apply Valor, at 1.5 to 2 oz/A, after wheat reaches the hard dough stage and grain has no more than 30% moisture. Wheat can be harvested 10 days after application. Valent recommends tank mixing with glyphosate.

DIRECTIONS FOR USE IN BUSHBERRY, CANEBERRY, CITRUS FRUIT, GRAPE, TREE NUT, OLIVE, POME FRUIT, POMEGRANATE, STONE FRUIT AND NON-BEARING FRUIT TREES

- Bushberry (Subgroup 13-07B): Aronia Berry; Blueberry, Highbush; Blueberry, Lowbush;
 Buffalo Currant; Chilean Guava; Cranberry, Highbush; Currant, Black; Currant, Red;
 Elderberry, European Barberry, Gooseberry, Honeysuckle, edible; Huckleberry; Jostaberry;
 Juneberry (Saskatoon Berry); Lingonberry; Native Currant; Salal; Sea Buckthorn; cultivars, varieties, and/or hybrids of these.
- Caneberry (Subgroup 13-07A): Blackberry, Loganberry, Black Raspberry, Red Raspberry, Wild Raspberry cultivars, varieties and/or hybrids of these.
- Citrus Fruit (Crop Group 10-10): Australian Desert Lime; Australian Finger-lime; Australian Round Lime; Brown River Finger Lime; Calamondin; Citron; Citrus hybrids; Grapefruit; Japanese Summer Grapefruit; Kumquat; Lemon; Lime; Mediterranean Mandarin; Mount White Lime; New Guinea Wild Lime; Orange, Sour; Orange, Sweet; Pummelo; Russell River Lime; Satsuma Mandarin; Sweet Lime; Tachibana Orange; Tahiti Lime; Tangelo; Tangerine (mandarin); Tangor; Trifoliate Orange; Uniq Fruit; cultivars, varieties and/or hybrids of these.
- Tree Nut (Crop Group 14-12): African Nut-tree; Almond, Beechnut; Brazil Nut; Brazilian Pine; Bunya; Bur Oak; Butternut; Cajou Nut; Candlenut; Cashew; Chestnut; Chinquapin; Coconut; Coquito Nut; Dika Nut; Ginkgo; Guiana Chestnut; Hazelnut (Filbert); Heartnut; Hickory Nut; Japanese Horse-chestnut; Macadamia Nut; Mongongo Nut; Monkey-pot; Monkey Puzzle Nut; Okari Nut; Pachira Nut; Peach Palm Nut; Pecan; Pequi; Pili Nut; Pine Nut; Pistachio; Sapucaia Nut; Tropical Almond; Walnut, Black; Walnut, English; Yellowhorn, cultivars, varieties and/or hybrids of these.
- Pome Fruit (Crop Group 11-10): Apple; Azarole; Crabapple; Loquat; Mayhaw; Medlar; Pear; Pear, Asian; Quince; Quince, Chinese; Quince, Japanese; Tejocote; cultivars, varieties and/or hybrids of these.
- Stone Fruit (Crop Group 12-12): Apricot; Apricot, Japanese; Capulin; Cherry, Black; Cherry, Nanking; Cherry, Sweet; Cherry, Tart; Jujube, Chinese; Nectarine; Peach; Plum; Plum, American; Plum, Beach; Plum, Canada; Plum, Cherry; Plum, Chickasaw; Plum, Damson; Plum, Japanese; Plum, Klamath; Plum, Prune; Plumcot; Sloe and cultivars, varieties and/or hybrids of these.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 12 oz of Valor Herbicide per acre during a single application, except Caneberries
 do not apply more than 6 oz Valor Herbicide per acre during a single application.
- Do not apply more than 24 oz of *Valor* Herbicide per acre during a 12 month period, except: Bushberries do not apply more than 12 oz per acre during a 12 month period; Caneberries do not apply more than 6 oz per acre during a 12 month period.
- Do not make a sequential application within 30 days of the first application, except nut trees; do not make a sequential application within 60 days of the first application.
- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- Do not apply within 300 yards of non-dormant pome fruit and stone fruit.
- Do not apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.
- Do not mow treated areas between bud break and final harvest. Dust created by mowing may drift onto desirable vegetation resulting in injury.
- Do not apply to nut trees established less than one year, unless protected from spray contact by nonporous wraps, grow tubes, or waxed containers.
- Preharvest Interval (PHI)

Citrus Fruit: 3 days
Bushberries: 7 days
Caneberries: 7 days
Grape: 60 days
Nut Trees: 60 days

Olive: 60 days
Pome Fruit: 60 days
Pomegranate: 60 days
Stone Fruit: 60 days

PRECAUTIONS

- A maximum *Valor* Herbicide rate of 6 oz/A per application should be used on any soil that has a sand plus gravel content over 80% if bushes, trees or vines are less than 3 years of age. (Two applications of 6 oz/A in a 12 month period can still be made as long as there have been 60 days between applications).
- Raise mower height during all mowing to reduce dust. Dust created by mowing can drift onto desirable vegetation resulting in injury.
- Follow the most restrictive label limitations and precautions of the tank mix product(s) being used.
- Avoid direct or indirect spray contact to foliage and green bark or canes (non-barked trunk and non-barked vines with the exception of undesirable suckers).
- Irrigate after application with minimum of 1/4 inch of water to activate the herbicide and to reduce wind displacement of soil.

For bushberries, caneberries, citrus fruit, grape, nut trees, olive, pomegranate and non-bearing fruit trees, apply *Valor* Herbicide as a uniform broadcast application to the orchard or vineyard floor or as a uniform band application directed at the base of the bush, cane, trunk or vine. For stone fruit and pear, *Valor* Herbicide can only be applied as a uniform band directed at the base of the trunk prior to "bud break". For apple, *Valor* Herbicide can only be applied as a uniform band directed at the base of the trunk prior to "pink bud". For other pome fruit, check with Valent personnel for application timing. The preferred application timing for *Valor* Herbicide is in the fall to maximize the potential for rainfall to activate and set the herbicide. Do not apply over the top of crop or allow spray to come in contact with crop as a result of application or drift.

Preemergence Application

Apply 6 to 12 oz (0.188 to 0.38 lb ai/A) (maximum 6 oz/A for caneberries) of *Valor* Herbicide per broadcast acre as a preemergence application. Preemergence (to weed emergence) applications of *Valor* Herbicide should be made to a weed-free soil surface. Preemergence applications of *Valor* Herbicide must be completed prior to weed emergence. Moisture is necessary to activate *Valor* Herbicide on soil for residual weed control. Dry weather following application of *Valor* Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, *Valor* Herbicide will control susceptible germinating weeds.

Postemergence Application

If weeds are emerged at the time of application, apply 6 to 12 oz (0.188 to 0.38 lb ai/A) (maximum 6 oz/A for caneberries) of *Valor* Herbicide per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate). The addition of an adjuvant enhances *Valor* Herbicide activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of *Valor* Herbicide. *Valor* Herbicide will not control emerged weeds without the addition of a labeled burndown product.

Refer to Table 10, Weeds Controlled by Preemergence Application of *Valor* Herbicide for weeds controlled by the residual activity of *Valor* Herbicide. *Valor* Herbicide should be tank mixed with a labeled burndown herbicide for control of the emerged weeds listed in Table 13, Weeds Controlled by Postemergence Activity of Valor Herbicide Tank Mixes. Refer to tank mix partner's label for additional weed species and increased weed heights claimed. Refer to tank mix partner's label for additional restrictions, including minimum carrier volume and crops in which tank mix partner may be used. Tank mixes with glyphosate or 2,4-D containing products are not recommended during the period after bloom through final harvest to ensure crop safety from drift.

Residual weed control will be reduced if vegetation prevents the *Valor* Herbicide from reaching the soil surface. If vegetation is heavy, it is recommended to use a burndown herbicide with *Valor* Herbicide and make a sequential *Valor* Herbicide application prior to the emergence of new weeds.

Carrier Volume and Spray Pressure

To ensure thorough coverage in burndown applications, use a minimum of 15 gallons of spray solution per acre. Use higher gallonage if dense vegetation or heavy crop residue is present.

Nozzle selection should meet manufacturer's gallonage and pressure recommendations.

Banded Application

Rates listed in Table 13, Weeds Controlled by Postemergence Activity of Valor Herbicide Tank Mixes, refer to a broadcast application covering the entire acre. Refer to the Band Application table in Use Information section to calculate amount needed per acre when making a banded application.

USE PRECAUTIONS FOR BUSHBERRIES

- Do not use in the states of Idaho, Oregon or Washington except west of the Cascade Mountains in the following counties:
 - **Oregon:** Benton, Clackamas, Clatsop, Columbia, Coos, Curry, Douglas, Jackson, Josephine, Lane, Lincoln, Linn, Marion, Multnomah, Polk, Tillamook, Umatilla, Yamhill and Washington
 - **Washington:** Benton, Clallam, Clark, Cowlitz, Franklin, Grant, Grays Harbor, King, Jefferson, Kitsap, Lewis. Pacific. Pierce. Skagit. Snohomish. Thurston. Wahkiakum. Walla Walla and Whatcom
- Do not apply to bushberries established less than 2 years unless they are protected from spray contact by non-porous wrap, grow tubes or waxed containers.

USE PRECAUTIONS FOR GRAPES

- Do not apply to grapes established less than 2 years unless they are trellised at least 3 ft from the soil surface or are protected from spray contact by non-porous wrap, grow tubes or waxed containers.
- Do not apply to grapes that are not trellised or staked unless they are free standing.
- Avoid direct or indirect spray contact to foliage and green bark (non-barked vines, with the exception of undesirable suckers).
- New plantings of "own-rooted varieties", such as Concord, should be planted so that all roots are a minimum 8 inches below the soil surface to be treated. In some situations, this may require hilling soil around newly planted vines so that the settled depth of the hill will be 4 to 5 inches above the vineyard floor.

Juice, Raisin and Wine Grapes

• Do not apply during the period after bud break through final harvest, unless using shielded application equipment and applicator can ensure spray drift will not come in contact with crop fruit or foliage. Shielded applications during this time period should not be made with glyphosate or products containing glyphosate.

Table Grapes

- Valor may be applied during the period following final harvest up to bud break.
- Do not apply after bud break.

USE PRECAUTIONS FOR CITRUS FRUIT, TREE NUTS, OLIVE, POME FRUIT, POMEGRANATE AND STONE FRUIT

- California only: For almonds and stone fruit in the counties of Merced, San Joaquin and Stanislaus, follow supplemental labeling provided by Valent U.S.A. Corporation.
- For pome fruit and stone fruit, *Valor* Herbicide can only be applied as a uniform band directed at the base of the trunk prior to silver tip in apples and bud break in stone fruit.
- Do not apply to pears in the states of Oregon or Washington.
- For pome fruit and stone fruit do not apply to row middles (area between berms)
- For nut trees, olive and pomegranate apply after bud break through final harvest using shielded application equipment if the applicator can ensure the spray drift will not come into contact with non-target vegetation, crop fruit and/or foliage. Shielded application equipment is not required if the following application parameters are followed:
 - Application pressure (at boom) < 30 PSI.
 - Application speed < 5 MPH.
 - Applicator can ensure the spray drift will not come into contact with non-target vegetation, crop fruit and/or foliage.
- Do not apply to trees established less than one year, unless protected from spray contact by non-porous wraps, grow tubes, paint or waxed containers.

- Do not use in the states of Oregon or Washington except in the following counties unless the additional restrictions listed below are followed:
 - **Oregon:** Benton, Clackamas, Clatsop, Columbia, Coos, Curry, Douglas, Jackson, Josephine, Lane, Lincoln, Linn, Marion, Morrow, Multnomah, Polk, Tillamook, Umatilla, Yamhill and Washington **Washington:** Clallam, Cowlitz, Grays Harbor, King, Jefferson, Kitsap, Lewis, Pacific, Pierce, Skagit, Snohomish, Thurston, Wahkiakum and Whatcom
 - For apples east of the Cascade Mountains in Washington (counties not listed above), follow the restrictions above plus:
 - o Apply between final harvest and January 1.
 - o Apply only to apple blocks with an established (2 years or older) permanent cover crop that covers a minimum of 60% of the surface area in the block.
 - o Application must be incorporated with a minimum of one half inch of water within 48 hours after application.
 - o Do not apply to powdery soils or soils susceptible to wind displacement.
 - Apply only to orchard berms.
 - o Do not mow the treated berm areas of the orchard

USE PRECAUTIONS FOR NON-BEARING FRUIT TREES

Non-Bearing Avocado and Fig

- Do not apply more than 12 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 24 oz of Valor Herbicide per acre during a 12 month period.
- Do not harvest fruit from treated trees within one year of application.
- Do not apply to trees established less than one year, unless protected from spray contact by non-porous wraps, grow tubes or waxed containers.
- Do not apply during the period after flowering through leaf drop, unless using shielded application equipment and the applicator can ensure spray drift will not come in contact with the crop foliage.

Table 13. Weeds Controlled by Postemergence Activity of Valor Herbicide Tank mixes

COMMON NAME	SCIENTIFIC NAME	WEED HEIGHT/LENGTH (inches)	<i>VALOR</i> HERBICIDE RATE
Bindweed, Field ¹	Convolvulus arvensis	8	6 to 12 oz/A
Carpetweed	Mollugo verticillata	4	
Chickweeds			
Common	Stellaria media	4	
Mouseear	Cerastium vulgatum	4	
Cocklebur, Common	Xanthium strumarium	4	
Eveningprimrose, Cutleaf ²	Oenothera laciniata	12	
Filaree			
Broadleaf	Erodium botrys	4	
Redstem	Erodium cicutarium	4	
Florida Beggarweed	Desmodium tortuosum	2	
Hemp Sesbania	Sesbania exaltata	8	
Jimsonweed	Datura stramonium	4	
Lambsquarters, Common	Chenopodium album	4	
Morningglories	•		
Entireleaf	Ipomoea hederacea var. integriuscula	4	
lvyleaf	Ipomoea hederacea	4	
Pitted	Ipomoea lacunosa	6	
Red/Scarlet	Ipomoea coccinea	4	
Tall	Ipomoea purpurea	4	
Mustard, Wild	Brassica kaber	6	
Pigweeds			
Palmer Amaranth	Amaranthus palmeri	6	
Redroot	Amaranthus retroflexus	6	
Smooth	Amaranthus hybridus	6	
Plaintain, Broadleaf	Plantago major	6	
Prickly Sida (Teaweed)	Sida spinosa	6	
Purslanes	,		
Common	Portulaca oleracea	4	
Rock	Calandrinia spp.	2	
Ragweeds			
Common	Ambrosia artemisiifolia	2	
Giant	Ambrosia trifida	4	
Rice Flatsedge	Cyperus iria	4	
Sicklepod	Senna obtusifolia	4	
Smartweeds	•		
Ladysthumb	Polygonum persicaria	4	
Pale	Polygonum lapathifolium	4	
Pennsylvania	Polygonum pensylvanicum	4	
Spotted Spurge	Euphorbia maculata	4	
Velvetleaf	Abutilon theophrasti	4	
Venice Mallow	Hibiscus trionum	4	
Waterhemps	•		
Common	Amaranthus rudis	2	
Tall	Amaranthus tuberculatus	2	

¹ Valor Herbicide will only provide control of the above ground portion of bindweed. Repeated applications will be needed to control regrowth.
² For acceptable control, cutleaf eveningprimrose should be 12 inches or less and in the rosette stage. Crop oil concentrate, at 1 pt./A, or nonionic surfactant at 0.25% v/v, should be added to glyphosate tank mixes for cutleaf eveningprimrose control, including glyphosate formulations that contain a built-in adjuvant system.

ADDITIONAL RESIDUAL WEED CONTROL

Valor Herbicide maybe tank mixed with oryzalin (Surflan®), simazine or diuron for additional residual weed control. Always read and follow label use directions for all products being used.

DIRECTIONS FOR USE TO MAINTAIN BARE GROUND ON NON-CROP AREAS OF FARMS, ORCHARDS AND VINEYARDS

RESTRICTIONS AND LIMITATIONS

- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- Do not apply to ditch banks.

Valor, when used as directed, can be used on farms, orchards and vineyards for non-selective vegetation control to maintain bare ground on non-crop areas that must be kept weed free. Follow all applicable directions as outlined above under "USE INFORMATION".

Valor offers residual and postemergence control of susceptible broadleaf and grass weeds as well as an additional mode of action to assist in the control of ALS (acetolactate synthase) resistant weeds. *Valor* can be tank mixed with the herbicides listed in Table 14 for increased residual or postemergence control. The length of residual control is dependent on the rate applied as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase. *Valor* rates of 6 to 12 oz/A are required to provide residual control of the weeds listed in Table 10.

PREEMERGENCE APPLICATION

Apply 6 to 12 oz (0.188 to 0.38 lb ai/A) of *Valor* per broadcast acre as a preemergence application. Preemergence (to weed emergence) applications of *Valor* should be made to a weed-free soil surface. Preemergence applications of *Valor* must be completed prior to weed emergence. Moisture is necessary to activate *Valor* on soil for residual weed control. Dry weather following application of *Valor* may reduce effectiveness. However, when adequate moisture is received after dry conditions, *Valor* will control susceptible germinating weeds.

POSTEMERGENCE APPLICATION

Apply 6 to 12 oz (0.188 to 0.38 lb. ai/A) of *Valor* per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate). The addition of an adjuvant enhances *Valor* activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of *Valor*. Emerged weeds are controlled postemergence with *Valor*, however, translocation of *Valor* within a weed is limited, and control is affected by spray coverage and by the addition of an adjuvant. The most effective postemergence weed control with *Valor* occurs when applied in combination with a surfactant to weeds less than 2 inches in height. A tank mix partner should be used in combination with *Valor* for the postemergence control of weeds larger than 2 inches. Recommended tank mix partners are listed in Table 14.

IMPORTANT: Completely read and follow the label of any potential tank mix partner with *Valor*. When using tank mixtures, use conditions must be in accordance with the most restrictive of the label limitations and precautions on either herbicide label.

Table 14. Tank Mix Combinations to Maintain Bare Ground on Non-Crop Areas

glyphosate 2,4-	Rely	paraquat
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STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Keep pesticide in original container.

Store in a cool, dry, secure place.

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

Do not contaminate food or foodstuffs.

Do not store or transport near feed or food.

Not for use or storage in or around the home.

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

PESTICIDE DISPOSAL

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

CONTAINER HANDLING

Note to EPA reviewer: if this product is shipped in container small enough to shake, the following container handling statement will be added to the label:

[Nonrefillable Container: Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Then offer for recycling, if available or puncture and dispose of in a sanitary landfill.]

-or-

Note to EPA reviewer: if this product is shipped in containers greater than 50 lbs, the following container handling statement will be added to the label:

Container statement for nonrefillable container with liner

[Nonrefillable Bag: Do not reuse or refill this bag. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into equipment. Do not reuse bag. Dispose of bag in a sanitary landfill or by incineration if allowed by State and local authorities. Offer for recycling if available. Liner: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into equipment. Do not reuse liner. Dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities.]

-or-

Container statement for nonrefillable drum with liner

[Nonrefillable Container: Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Liner: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into equipment. Do not reuse liner. Dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities.]

-or-

Container statement for refillable container

[Refillable Container: Refilling Container: Refill this container with Flumioxazin only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate viborously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. When empty, return to point of sale.]

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Made in U.S.A.

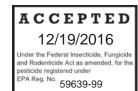
EPA Reg. No. 59639-99 EPA Est.

059639-00099.20161216. Valor, AMEND, FeedIR4

Supplemental Label



Valent U.S.A. Corporation P.O. Box 8025 Walnut Creek, CA 94596-8025



VALOR® Herbicide EPA Reg. No. 59639-99

PREEMERGENCE APPLICATION IN PEANUT (NORTH CAROLINA, OKLAHOMA AND VIRGINIA ONLY)

This supplemental label expires on June 30, 2017 and must not be used or distributed after this date.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

ENVIRONMENTAL HAZARDS:

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

This pesticide is toxic to plants and should be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

Under some conditions this product may have a potential to run-off to surface water or adjacent land. Where possible, use methods which reduce soil erosion, such as no till, limited till and contour plowing; these methods also reduce pesticide run-off. Use of vegetation filter strips along rivers, creeks, streams, wetlands or on the downhill side of fields where run-off could occur will minimize water run-off and is recommended.

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.

PREEMERGENCE APPLICATION IN PEANUTS IN THE STATES OF NORTH CAROLINA, OKLAHOMA, AND VIRGINIA

VALOR, at 3 oz. per acre, can be applied within 2 days of planting to control common ragweed, tropic croton and entireleaf, ivyleaf and tall/scarlet morningglories.

Cool temperatures near emergence (2 consecutive nighttime lows in the 50's F) in combination with heavy rainfall may result in severe crop injury. VALOR, at 3 oz./A, should only be used in these states when other alternatives are not available for adequate control of the weeds listed above and the user acknowledges the risks associated with this use rate under the adverse environmental conditions listed above.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. PLEASE REFER TO CONTAINER LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS. FOLLOW ALL APPLICATION DIRECTIONS, RESTRICTIONS, AND PRECAUTIONS ON THE EPA REGISTERED LABEL.

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 1-800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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Made in U.S.A.

Form 2004-VLR-0017



VALOR® Herbicide EPA Reg. No. 59639-99

This supplemental label expires on June 30, 2017 and must not be used or distributed after this date.

VALOR® HERBICIDE USE IN ONION (DRY BULB) WITH CHEMIGATION

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE BEFORE APPLYING. USE OF *VALOR* HERBICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 3 oz of *Valor* Herbicide per acre during a single growing season.
- Do not make sequential application within 14 days of the first application.
- Do not apply more than 1 oz of *Valor* Herbicide per season on soils that contain greater than 90% sand plus gravel.
- Do not apply as part of a tank mix, other than with Prowl® H₂O Herbicide, or unacceptable injury may result. Other formulations of pendimethalin should not be tank mixed with *Valor* Herbicide for use in onions.
- Do not apply with any type of adjuvant.
- Do not apply within 45 days of harvest.

Use of *Valor* Herbicide may result in necrotic spotting of onion leaves that come in contact with the spray. User should assume this potential crop response before using *Valor* Herbicide.

Microrate Application

Sequential applications of *Valor* Herbicide may be applied to onions (dry bulb), between the 2-leaf and 6-leaf stage, at rates of 0.5 to 1 oz/A, on a 7 day interval.

TIMING TO ONIONS (dry bulb)

Apply *Valor* Herbicide to transplanted onions (dry bulb) between the 2-leaf and 6-leaf stage and on direct seed onions (dry bulb) between the 3-leaf and 6-leaf stage.

TIMING TO WEEDS

Preemergence - Emerged Onions (dry bulb), Preemergence To Weeds

Apply *Valor* Herbicide to weed free onions (dry bulb) for preemergence control of the weeds listed in Table A, Broadleaf Weeds Controlled by Residual Activity of *Valor* Herbicide

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* Herbicide, when applied according to label use directions, will control the weeds listed in Table A. This label makes no claims concerning control of other weed species.

CHEMIGATION

Valor Herbicide may be applied through sprinkler irrigation systems in onions (dry bulb). Follow all label recommendations for these crops regarding rates, timing of application, special instructions and precautions.

Apply this product only through center pivot systems. End guns must be turned off due to uneven application. Do not apply this product through any other type of irrigation system.

Crop injury, lack of efficacy or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

The system must be properly calibrated (with water only) to ensure that the amount of *Valor* Herbicide applied corresponds to the recommended rate.

Apply *Valor* Herbicide in 1/2 to 3/4 inches of water during the first sprinkler set. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period. Once chemigation has begun, the run must be completed to ensure no product is left in the system.

If you have any questions about calibration, you should contact your State Extension Service Specialist, equipment manufacturers or other experts.

Special Precautions for Chemigation

- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a
 public water system unless the pesticide label-prescribed safety devices for public water systems are in
 place.
- 2. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- 3. The system must be free of leaks and clogged nozzles.
- 4. The pesticide must be supplied continuously for the duration of the aqueous application. An uneven application may cause injury to the crop or poor weed control.
- 5. Agitation must be maintained in the nurse tank.
- The sprinkler chemigation system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in the case where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 11. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.
- 12. Do not apply when wind speed favors drift beyond the area intended for treatment.

Chemigation Systems Connected to Public Water Systems

- 1. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to the public water system must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be

- discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3. All chemigation systems connected to the public water system must also follow restrictions listed in the preceding section titled "**Special Precautions for Chemigation**".

Table A. Broadleaf Weeds Controlled by Residual Activity of VALOR HERBICIDE

BROADLEAF WEED SPEC	CIES			
Common Name	Scientific Name	Organic Matter	Soil Type	<i>Valor</i> Herbicide Rate
Carpetweed	Mollugo verticillata	Up to 5%	All Soil	2 oz/A
Chickweeds			Types	
Common	Stellaria media			
Mouseear	Cerastium vulgatum			
Dandelion	Taraxacum officinale			
Eclipta	Eclipta prostrata			
Eveningprimrose, Cutleaf	Oenothera laciniata			
Florida Pusley	Richardia scabra			
Henbit	Lamium amplexicaule			
Lambsquarters, Common	Chenopodium album			
Little Mallow	Malva parviflora			
Marestail/Horseweed	Conyza canadensis			
Nightshades				
Black	Solanum nigrum			
Eastern Black	Solanum ptycanthum			
Hairy	Solanum sarrachoides			
Pigweeds				
Redroot	Amaranthus retroflexus			
Smooth	Amaranthus hybridus			
Spiny Amaranth	Amaranthus spinosus			
Tumble	Amaranthus albus			
Prickly Sida (Teaweed)	Sida spinosa			
Puncturevine	Tribulus terrestris			
Purslane, Common	Portulaca oleracea]		
Radish, Wild	Raphanus raphanistrum]		
Redmaids	Calandrinia ciliata var. menziessii			
Shepherd's-Purse	Capsella bursa-pastoris]		
Smallflower Morningglory	Jacquemontia tamnifolia			
Spotted Spurge	Euphorbia maculata			
Venice Mallow	Hibiscus trionum			

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Manufactured for: Valent U.S.A. Corporation P.O. Box 8025 Walnut Creek, CA 94596-8025 www.valent.com



VALOR® Herbicide

EPA Reg. No. 59639-99

(For Use Only in Arizona, California, Colorado, Delaware, Florida, Hawaii, Idaho, Maryland, Minnesota, Montana, Nebraska, Nevada, New Jersey, New Mexico, North Carolina, North Dakota, Oregon, South Carolina, South Dakota, Texas, Utah, Virginia, Washington, Washington DC and Wyoming)

This supplemental label expires on June 30, 2017 and must not be used or distributed after this date.

VALOR® HERBICIDE USE IN POTATO INCLUDING CHEMIGATION

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE BEFORE APPLYING. USE OF *VALOR* HERBICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 1.5 oz of Valor Herbicide per acre during a single application.
- Do not apply more than 1.5 oz of *Valor* Herbicide per acre during a single growing season.
- Do not apply to Rill (furrow) irrigated potatoes.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near potato emergence, may result in potato injury in fields treated with *Valor* Herbicide. On occasion this has resulted in a delay in maturity. User should assume these risks before using *Valor* Herbicide.

TIMING TO POTATOES

Valor Herbicide may be applied to potatoes after hilling for the preemergence suppression of the weeds listed in Table A, Weeds Suppressed by Residual Activity of Valor Herbicide at 1.5 oz/A. Tank mix Valor Herbicide with other labeled herbicides for broad spectrum weed control. A minimum of 2 inches of settled soil must cover the vegetative portion of the potato plant at the time of Valor Herbicide application. Application to potatoes with less than 2 inches of soil covering the vegetative portion of the potato may result in crop injury. In areas with historically higher amounts of rainfall during the time of preemergence herbicide applications, such as the Red River Valley, Minnesota and North Dakota, the requirement for 2 inches of settled soil is critical to avoid crop injury. Mechanical incorporation of Valor Herbicide will result in decreased weed control and should be avoided. In areas with sprinkler irrigation, Valor Herbicide should be incorporated with 0.25 to 0.75 inches of irrigation, after application and before any sprouts are within 2 inches of the settled soil surface if a rainfall event has not yet occurred.

TIMING TO WEEDS

Preemergence - Soil Covered Potatoes, Preemergence to Weeds

Apply *Valor* Herbicide to soil covered potatoes for the preemergence suppression of the weeds listed in Table A. Harrowing, cultivation or corrigating after *Valor* Herbicide application will reduce weed control.

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.

CHEMIGATION

Valor Herbicide may be applied through sprinkler irrigation systems in potatoes. Follow all label recommendations for this crop regarding rates, timing of application, special instructions and precautions.

Apply this product only through center pivot systems. End guns must be turned off due to uneven application. Do not apply this product through any other type of irrigation system.

Crop injury, lack of efficacy or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

The system must be properly calibrated (with water only) to ensure that the amount of *Valor* Herbicide applied corresponds to the recommended rate.

Apply *Valor* Herbicide in 1/2 to 3/4 inches of water during the first sprinkler set. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period. Once chemigation has begun, the run must be completed to ensure no product is left in the system.

If you have any questions about calibration, you should contact your State Extension Service Specialist, equipment manufacturers or other experts.

Special Precautions for Chemigation

- 1. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 2. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- 3. The system must be free of leaks and clogged nozzles.
- 4. The pesticide must be supplied continuously for the duration of the aqueous application. An uneven application may cause injury to the crop or poor weed control.
- 5. Agitation must be maintained in the nurse tank.
- The sprinkler chemigation system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in the case where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 11. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.
- 12. Do not apply when wind speed favors drift beyond the area intended for treatment.

Chemigation Systems Connected to Public Water Systems

- 1. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to the public water system must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

3. All chemigation systems connected to the public water system must also follow restrictions listed in the preceding section titled "Special Precautions for Chemigation".

Table A. Weeds Suppressed by Residual Activity of Valor Herbicide at 1.5 oz/A

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	<i>VALOR</i> HERBICIDE RATE
Lambsquarters, Common	Chenopodium album	Up to 5%	1.5 oz/A
Mustard, Wild	Brassica kaber		
Nightshades			
Black	Solanum nigrum		
Eastern Black	Solanum ptycanthum		
Hairy	Solanum sarrachoides		
Palmer Amaranth	Amaranthus palmeri		
Pigweeds			
Redroot	Amaranthus retroflexus		
Smooth	Amaranthus hybridus		
Spiny Amaranth	Amaranthus spinosus		
Tumble	Amaranthus albus		
Radish, Wild	Raphanus raphanistrum		

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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ACCEPTED 12/19/2016 Under the Federal Insecticide, Funglicide and Rodenticide Act as amended, for the pesticide registered under

eg. No. 59639-99

VALOR® Herbicide

EPA Reg. No. 59639-99 (For Use Only in Arizona, California, Colorado, Hawaii, Idaho, Nebraska, Oregon and Washington)

This supplemental label expires on June 30, 2017 and must not be used or distributed after this date.

VALOR® HERBICIDE USE IN DRY BEAN FOR WEED SUPPRESSION

Dried cultivars of bean (*Lupinus*); bean (*Phaseolus*) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (*Vigna*) (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean and lentil

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE BEFORE APPLYING. USE OF *VALOR* HERBICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 1.5 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 1.5 oz of *Valor* Herbicide per acre during a single growing season.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near crop emergence, may result in dry bean injury in fields treated with *Valor* Herbicide. On occasion this has resulted in a delay in maturity. User should assume these risks before using *Valor* Herbicide.

TIMING TO DRY BEAN

Valor Herbicide may be applied to dry beans within 2 days after planting for the preemergence suppression of the weeds listed in Table A, Weeds Suppressed by Residual Activity of *Valor* Herbicide at 1.5 oz/A. Tank mix *Valor* Herbicide with other labeled herbicides for broad spectrum weed control.

TIMING TO WEEDS

Valor Herbicide may be applied to dry beans prior to planting or preemergence (after planting). Preemergence application of *Valor* Herbicide must be made within 2 days after planting and prior to dry bean emergence. To avoid severe crop injury, do not apply to dry beans after beans begin to crack or have emerged.

Preplant incorporation (PPI) applications may result in reduced weed control.

ADDITIONAL RESIDUAL GRASS CONTROL

Valor Herbicide can be tank mixed with pendimethalin for additional grass control.

Table A. Weeds Suppressed by Residual Activity of Valor Herbicide at 1.5 oz/A

COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	<i>VALOR</i> HERBICIDE RATE
Lambsquarters, Common	Chenopodium album	Up to 5%	1.5 oz/A
Mustard, Wild	Brassica kaber		
Nightshades			
Black	Solanum nigrum		
Eastern Black	Solanum ptycanthum		
Hairy	Solanum sarrachoides		
Palmer Amaranth	Amaranthus palmeri		
Pigweeds			
Redroot	Amaranthus retroflexus		
Smooth	Amaranthus hybridus		
Spiny Amaranth	Amaranthus spinosus		
Tumble	Amaranthus albus		
Prickly Lettuce (China Lettuce)	Lactuca serriola		
Radish, Wild	Raphanus raphanistrum		

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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VALOR® Herbicide

EPA Reg. No. 59639-99

(For Use Only in Arizona, California, Hawaii, Idaho, Oregon and Washington)

VALOR® HERBICIDE USE ON CHICKPEA (GARBANZO BEAN)

This supplemental label expires on June 30, 2017 and must not be used or distributed after this date.

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE BEFORE APPLYING. USE OF *VALOR* HERBICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2.0 oz of *Valor* Herbicide per acre during a single application.
- Do not apply more than 2.0 oz of *Valor* Herbicide per acre during a single growing season.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near crop emergence, may result in garbanzo bean injury in fields treated with *Valor* Herbicide. On occasion this has resulted in a delay in maturity. User should assume these risks before using *Valor* Herbicide.

TIMING TO CHICKPEA (GARBANZO BEAN)

Valor Herbicide may be applied to garbanzo beans within 2 days after planting for the preemergence suppression of the weeds listed in Table A, Broadleaf Weeds Controlled by Residual Activity of *Valor* Herbicide. Tank mix *Valor* Herbicide with other labeled herbicides for broad spectrum weed control.

TIMING TO WEEDS

Valor Herbicide may be applied to garbanzo beans prior to planting or preemergence (after planting). Preemergence application of *Valor* Herbicide must be made within 2 days after planting and prior to garbanzo bean emergence. Application after the garbanzo beans have begun to crack, or are emerged, will result in severe crop injury. Application should not be made when garbanzo beans have begun to crack.

Preplant incorporation (PPI) applications may result in reduced weed control.

ADDITIONAL RESIDUAL GRASS CONTROL

Valor Herbicide can be tank mixed with pendimethalin for additional grass control.

Table A. Broadleaf Weeds Controlled by Residual Activity of Valor Herbicide

BROADLEAF WEED	JECIES			
SECTION A				
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR Herbicide RATE
Carpetweed	Mollugo verticillata	Up to 5%	All Soil	2 oz/A
Chickweeds]	Types	
Common	Stellaria media]		
Mouseear	Cerastium vulgatum]		
Dandelion	Taraxacum officinale]		
Eclipta	Eclipta prostrata]		
Eveningprimrose, Cutleaf	Oenothera laciniata]		
Field Pennycress	Thlaspi arvense			
Florida Pusley	Richardia scabra]		
Henbit	Lamium amplexicaule]		
Lambsquarters, Common	Chenopodium album]		
Little Mallow	Malva parviflora]		
Marestail/Horseweed	Conyza canadensis]		
Mayweed/False	Matricaria maritima]		
Chamomile				
Nightshades				
Black	Solanum nigrum			
Eastern Black	Solanum ptycanthum			
Hairy	Solanum sarrachoides			
Pigweeds				
Redroot	Amaranthus retroflexus			
Smooth	Amaranthus hybridus			
Spiny Amaranth	Amaranthus spinosus			
Tumble	Amaranthus albus			
Prickly Lettuce	Lactuca serriola			
Prickly Sida (Teaweed)	Sida spinosa			
Puncturevine	Tribulus terrestris]		
Purslane, Common	Portulaca oleracea]		
Radish, Wild	Raphanus raphanistrum			
Redmaids	Calandrinia ciliata var. menziesii			
Shepherd's-purse	Capsella bursa-pastoris			
Smallflower Morningglory	Jacquemontia tamnifolia			
Sowthistle, Prickly	Sonchus asper]		
Spotted Spurge	Euphorbia maculata			
Venice Mallow	Hibiscus trionum			

continued

Table A. Broadleaf Weeds Controlled by Residual Activity of Valor Herbicide (continued)

SECTION B	-			
All weeds listed in	Section A plus:			
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	<i>VALOR</i> Herbicide RATE
Coffee Senna	Cassia occidentalis	Up to 3%	All Soil	2 oz/A
Common Ragweed	Ambrosia artemisiifolia		Types	
False Chamomile	Tripleurospermum		,	
Florida Beggarweed	Desmodium tortuosum			
Golden Crownbeard	Verbesina encelioides			
Hairy Indigo	Indigofera hirsuta			
Hemp Sesbania	Sesbania exaltata	3 to 5%	Coarse and	2 oz/A
Jimsonweed	Datura stramonium		Medium	
Kochia	Kochia scoparia		Soils:	
London Rocket	Sisymbrium irio		(sandy	
Morningglories			loam,	
Entireleaf	Ipomoea hederacea var.		loamy sand,	
	integriuscula		loamy, silt-	
lvyleaf	Ipomoea hederacea		loam, silt,	
Red/Scarlet	Ipomoea coccinea		sandy clay,	
Tall	Ipomoea purpurea		sandy clay	
Mustard, Wild	Brassica kaber		loam)	
Palmer Amaranth	Amaranthus palmeri		,	
Spurred Anoda	Anoda cristata		Fine Soils:	2 oz/A
Tropic Croton	Croton glandulosus		(silty clay,	
Waterhemps			silty clay	
Common	Amaranthus rudis		loam, clay,	
Tall	Amaranthus tuberculatus	_	clay loam)	
Wild Poinsettia	Euphorbia heterophylla	_	,,	
Yellow Rocket	Barbarea vulgaris			

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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Manufactured for: Valent U.S.A. Corporation P.O. Box 8025 Walnut Creek, CA 94596-8025 www.valent.com



VALOR[®] Herbicide EPA Reg. No. 59639-99

This supplemental label expires on November 30, 2019 and must not be used or distributed after this date.

VALOR® HERBICIDE FOR USE PRECAUTIONS ON ALMOND AND STONE FRUIT IN A DEFINED AREAS OF MERCED, SAN JOAQUIN AND STANISLAUS COUNTIES OF CALIFORNIA

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE BEFORE APPLYING. USE OF *VALOR* HERBICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE

The use of *Valor* Herbicide in soils common in parts of Merced, San Joaquin and Stanislaus counties in California is known to have resulted in injury to almonds under drought stress conditions. These soils are characterized by having been cut or filled, high sand content, low clay content and shallow profiles. Growers in the Defined Area must be aware and assume the risk of using *Valor* Herbicide on almond or stone fruit crops. The Defined Area can be seen on the Map or by the description that follows:

- Intersection of Highway 4 and Escalon-Bellota Road at Farmington in San Joaquin County;
- Directly South on Escalon-Bellota to the Santa Fe Avenue and railroad tracks at Escalon
- Southeast on Santa Fe Avenue down to the Merced River;
- East following the Merced River to the Merced/Mariposa County line;
- Northwest following the Merced County line through the intersection of Merced and Stanislaus County line following the Stanislaus/Tuolumne County and Calaveras County line to Highway 4;
- West on Highway 4 back to the Farmington intersection of Escalon – Bellota Road.



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VALOR® HERBICIDE

EPA Reg. No. 59639-99

VALOR® HERBICIDE USE IN CANEBERRIES AND CITRUS FRUIT

This supplemental label expires December 31, 2019 and must not be used or distributed after this date.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE BEFORE APPLYING. USE OF *VALOR* HERBICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE.

DIRECTIONS FOR USE

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

DIRECTIONS FOR USE IN CANEBERRY AND CITRUS FRUIT

Caneberry

(Subgroup 13-07A): Blackberry; Loganberry; Black Raspberry; Red Raspberry; Wild Raspberry;

cultivars, varieties and/or hybrids of these.

Citrus Fruit

(Crop Group 10-10): Australian Desert Lime; Australian Finger-lime; Australian Round Lime;

Brown River Finger Lime; Calamondin; Citron; Citrus hybrids; Grapefruit; Japanese Summer Grapefruit; Kumquat; Lemon; Lime; Mediterranean Mandarin; Mount White Lime; New Guinea Wild Lime; Orange, Sour; Orange, Sweet; Pummelo; Russell River Lime; Satsuma Mandarin; Sweet Lime; Tachibana Orange; Tahiti Lime; Tangelo; Tangerine (mandarin); Tangor; Trifoliate Orange; Uniq Fruit; cultivars, varieties and/or hybrids of

these.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 12 oz of *Valor* Herbicide per acre during a single application, except Caneberries do not apply more than 6 oz *Valor* Herbicide per acre during a single application.
- Do not apply more than 24 oz of *Valor* Herbicide per acre during a 12 month period, except Caneberries, do not apply more than 6 oz per acre during a 12 month period.
- Do not make a sequential application within 30 days of the first application.
- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation.
- Do not apply within 300 yards of non-dormant pome fruit and stone fruit.
- Do not apply to powdery soils or soils that are susceptible to wind displacement unless irrigation can be applied immediately after application.

- Do not mow treated areas between bud break and final harvest. Dust created by mowing may drift onto desirable vegetation resulting in injury.
- Do not apply to trees established less than one year, unless protected from spray contact by non-porous wraps, grow tubes, paint or waxed containers.
- Preharvest Interval (PHI)

For Caneberries: 7 daysFor Citrus Fruit: 3 days

PRECAUTIONS

- A maximum Valor Herbicide rate of 6 oz/A per application should be used on any soil that has a sand plus gravel content over 80% if trees are less than 3 years of age. (Two applications of 6 oz/A in a 12 month period can still be made as long as there have been 60 days between applications).
- Raise mower height during all mowing to reduce dust. Dust created by mowing can drift onto desirable vegetation resulting in injury.
- Follow the most restrictive label limitations and precautions of the tank mix product(s) being used.
- Avoid direct or indirect spray contact to foliage and green bark or canes (non-barked trunk and non-barked vines with the exception of undesirable suckers).
- Irrigate after application with minimum of 1/4 inch of water to activate the herbicide and to reduce wind displacement of soil.

For caneberries and citrus fruit, apply *Valor* Herbicide as a uniform broadcast application or band application directed at the base of the cane or trunk. The preferred application timing for *Valor* Herbicide is in the fall to maximize the potential for rainfall to activate and set the herbicide. Do not apply over the top of crop or allow spray to come in contact with crop as a result of application or drift.

Preemergence Application

Apply 6 to 12 oz (0.188 to 0.38 lb ai/A) (maximum 6 oz/A for caneberries) of *Valor* Herbicide per broadcast acre as a preemergence application. Preemergence (to weed emergence) applications of *Valor* Herbicide should be made to a weed-free soil surface. Preemergence applications of *Valor* Herbicide must be completed prior to weed emergence. Moisture is necessary to activate *Valor* Herbicide on soil for residual weed control. Dry weather following application of *Valor* Herbicide may reduce effectiveness. However, when adequate moisture is received after dry conditions, *Valor* Herbicide will control susceptible germinating weeds.

Postemergence Application

If weeds are emerged at the time of application, apply 6 to 12 oz (0.188 to 0.38 lb ai/A) (maximum 6 oz/A for caneberries) of *Valor* Herbicide per broadcast acre plus an adjuvant (0.25% v/v non-ionic surfactant or 1 qt/A crop oil concentrate). The addition of an adjuvant enhances *Valor* Herbicide activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of *Valor* Herbicide. *Valor* Herbicide will not control emerged weeds without the addition of a labeled burndown product.

Refer to Weeds Controlled by Preemergence Application of Valor Herbicide table for weeds controlled by the residual activity of Valor Herbicide. Valor Herbicide should be tank mixed with a labeled burndown herbicide for control of the emerged weeds listed in Weeds Controlled by Postemergence Activity of Valor Herbicide Tank Mixes table. Refer to tank mix partner's label for additional weed species and increased weed heights claimed. Refer to tank mix partner's label for additional restrictions, including minimum carrier volume and crops in which tank mix partner may be used. Tank mixes with glyphosate or 2,4-D containing products are not recommended during the period after bloom through final harvest to ensure crop safety from drift.

Residual weed control will be reduced if vegetation prevents the *Valor* Herbicide from reaching the soil surface. If vegetation is heavy, it is recommended to use a burndown herbicide with *Valor* Herbicide and make a sequential *Valor* Herbicide application prior to the emergence of new weeds.

Carrier Volume and Spray Pressure

To ensure thorough coverage in burndown applications, use a minimum of 15 gallons of spray solution per acre. Use higher gallonage if dense vegetation or heavy crop residue is present.

Nozzle selection should meet manufacturer's gallonage and pressure recommendations.

Banded Application

Rates listed in the table below **Weeds Controlled by Postemergence Activity of Valor Herbicide Tank Mixes**, refer to a broadcast application covering the entire acre. Refer to the Band Application table to calculate amount needed per acre when making a banded application.

When banding, use proportionately less water and *Valor* Herbicide per acre. The rate of *Valor* Herbicide required per acre, when applied as a banded application, can be calculated with the following formula:

Amount Needed per Acre		Band Width in Inches		Data par Brandonat Aora
for Banded Application	=	Row Width in Inches	^	Rate per Broadcast Acre

Weeds Controlled by Preemergence Application of Valor Herbicide

BROADLEAF WEED SPECI	ES			
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE
Bristly Starbur	Acanthospermum hispidum	Up to 10% ¹	All Soil	Caneberries
Carpetweed	Mollugo verticillata		Types ²	6 oz/A
Chickweeds				
Common	Stellaria media			Citrus Fruit
Mouseear	Cerastium vulgatum			6 to 12 oz/A ²
Coffee Senna	Cassia occidentalis			
Dandelion	Taraxacum officinale			
Eclipta	Eclipta prostrata			
Eveningprimrose, Cutleaf	Oenothera laciniata			
False Chamomile	Tripleurospermum maritima			
Filaree				
Redstem	Erodium cicutarium			
Whitestem	Erodium moschatum			
Fiddleneck, Coast	Amsinckia menziesii			
Fleabane, Hairy	Conyza bonariensis			
Field Pennycress	Thlaspi arvense			
Florida Beggarweed	Desmodium tortuosum			
Florida Pusley	Richardia scabra			
Golden Crownbeard	Verbesina encelioides			
Groundsel, Common	Senecio vulgaris			
Hairy Indigo	Indigofera hirsuta			
Hemp Sesbania	Sesbania exaltata			
Henbit	Lamium amplexicaule			
Jimsonweed	Datura stramonium			
Kochia	Kochia scoparia			
Lambsquarters, Common	Chenopodium album			
Mallow				
Common (Cheeseweed)	Malva neglecta			
Little				
Horseweed/Marestail	Conyza canadensis			
Mayweed/False Chamomile	Matricaria maritima			
Morningglories				
Entireleaf	Ipomoea hederacea var. integriuscula			
lvyleaf				
Red/Scarlet	Ipomoea coccinea			
Smallflower	Jacquemontia tamnifolia			
Tall	Ipomoea purpurea			
	1			

continued

 ¹Valor Herbicide can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.
 ²A maximum Valor Herbicide rate of 6 oz/A per application should be used on any soil that has a sand plus gravel content over 80% if trees are under 3 years of age.

Weeds Controlled by Preemergence Application of Valor Herbicide (continued)

BROADLEAF WEED SPE	CIES		,	
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE
Mustards	·	Up to 10% ¹	All Soil	Caneberries
London Rocket	Sisymbrium irio		Types ²	6 oz/A
Tansey	Desurainia pinnata			
Tumble	Sisymbrium altissimum			Citrus Fruit
Wild	Brassica kaber			6 to 12 oz/A ²
Nettle, Burning	Urtica urens			
Nightshades				
Black	Solanum nigrum			
Eastern Black	Solanum ptycanthum			
Hairy	Solanum sarrachoides			
Pigweeds	·			
Palmer Amaranth	Amaranthus palmeri			
Redroot	Amaranthus retroflexus			
Smooth	Amaranthus hybridus			
Spiny Amaranth	Amaranthus spinosus			
Tumble	Amaranthus albus			
Prickly Lettuce	Lactuca serriola			
(China Lettuce)				
Prickly Sida (Teaweed)	Sida spinosa			
Puncturevine	Tribulus terrestris	7		
Purslane		7		
Common	Portulaca oleracea			
Horse	Trianthema portulacastrum			
Radish, Wild	Raphanus raphanistrum			
Ragweed, Common	Ambrosia artemisiifolia	7		
Redmaids	Calandrinia ciliata var menziessi.			
Redweed	Melochia corchorifolia			
Shepherd's-purse	Capsella bursa-pastoris	7		
Smellmelon	Cucumis melo	7		
Sowthistle, Annual ³	Sonchus oleraceus	7		
Spotted Spurge	Euphorbia maculata	7		
Spurred Anoda	Anoda cristata			
Thistle, Russian	Salsola iberica			
Tropic Croton	Croton glandulosus			
Venice Mallow	Hibiscus trionum	_		
Waterhemps	Journal II	\dashv		
Common	Amaranthus rudis	\dashv		
Tall	Amaranthus tuberculatus	\dashv		
Wild Poinsettia	Euphorbia heterophylla	\dashv		
White Cockle	Silene latifolia	\dashv		
Wormwood, Biennial	Artemisia biennis	\dashv		
Yellow Rocket		\dashv		
t ellow kocket	Barbarea vulgaris			continued

continued

Continue ¹ Valor Herbicide can be used on soils with greater than 10% organic matter; however, length of residual control may be shorter than on soils with lower organic matter content.

² A maximum Valor Herbicide rate of 6 oz/A per application should be used on any soil that has a sand plus gravel content over 80% trees are under 3 years of age.

³ Except CA

Weeds Controlled by Preemergence Application of Valor Herbicide(continued)

BROADLEAF WEED SPECIES				
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR HERBICIDE RATE
GRASS WEED SPECIES		Up to 10% ¹	All Soil	Caneberries
Barnyardgrass	Echinochloa crus-galli		Types ²	6 oz/A
Bluegrass, Annual	Poa annua			Citrus Fruit
Crabgrass				6 to 12 oz/A ²
Large	Digitaria sanquinalis			0 10 12 02/11
Smooth	Digitaria ischaemum			
Foxtails				
Bristly	Setaria verticillata			
Giant	Setaria faberi			
Green	Setaria viridis			
Yellow	Setaria glauca			
Goosegrass	Eleusine indica			
Guineagrass	Panicum maximum			
Johnsongrass, Seedling	Sorghum halepense			
Lovegrass, California	Eragrostis diffusa			
Panicum				
Fall	Panicum dichotomiflorum			
Texas	Panicum texaum			
Ryegrass, Italian	Lolium multiflorum			
Signalgrass, Broadleaf	Brachiaria platyphylla			

¹Valor Herbicide can be used on soils with greater than 10%; however, length of residual control may be shorter than on soils with lower organic matter content.

²A maximum *Valor* Herbicide rate of 6 oz/A per application should be used on any soil that has a sand plus gravel content over 80% if trees are under 3 years of age.

Weeds Controlled by Postemergence Activity of Valor Herbicide Tank mixes

COMMON NAME	SCIENTIFIC NAME	WEED HEIGHT/LENGTH (inches)	VALOR HERBICIDE RATE
Bindweed, Field ¹	Convolvulus arvensis	8	6 to 12 oz/A
Carpetweed	Mollugo verticillata	4	
Chickweeds			
Common	Stellaria media	4	
Mouseear	Cerastium vulgatum	4	
Cocklebur, Common	Xanthium strumarium	4	
Eveningprimrose, Cutleaf ²	Oenothera laciniata	12	
Filaree	<u> </u>		
Broadleaf	Erodium botrys	4	
Redstem	Erodium cicutarium	4	
Florida Beggarweed	Desmodium tortuosum	2	
Hemp Sesbania	Sesbania exaltata	8	
Jimsonweed	Datura stramonium	4	
Lambsquarters, Common	Chenopodium album	4	
Morningglories			
	Ipomoea hederacea var.		
Entireleaf	integriuscula	4	
lvyleaf	Ipomoea hederacea	4	
Pitted	Ipomoea lacunosa	6	
Red/Scarlet	Ipomoea coccinea	4	
Tall	Ipomoea purpurea	4	
Mustard, Wild	Brassica kaber	6	
Pigweeds			
Palmer Amaranth	Amaranthus palmeri	6	
Redroot	Amaranthus retroflexus	6	
Smooth	Amaranthus hybridus	6	
Plaintain, Broadleaf	Plantago major	6	
Prickly Sida (Teaweed)	Sida spinosa	6	
Purslanes	Ciaa opinooa	Ů	
Common	Portulaca oleracea	4	
Rock	Calandrinia spp.	2	
Ragweeds	T Calarianna opp.		
Common	Ambrosia artemisiifolia	2	
Giant	Ambrosia arternisinona Ambrosia trifida	4	
Rice Flatsedge	Cyperus iria	4	
Sicklepod	Senna obtusifolia	4	
Smartweeds	Gerina Oblasiiolia	7	
Ladysthumb	Polygonum persicaria	4	
Pale	Polygonum lapathifolium	4	
Pennsylvania	Polygonum pensylvanicum	4	
Spotted Spurge	Euphorbia maculata	4	
Velvetleaf	Abutilon theophrasti	4	
	Hibiscus trionum	4	
Venice Mallow	า แมเจนเจ แาบทนทา	4	
Waterhemps	Amoranthus wide		
Common	Amaranthus rudis	2	
Tall	Amaranthus tuberculatus	2	

¹ Valor Herbicide will only provide control of the above ground portion of bindweed. Repeated applications will be

needed to control regrowth.

² For acceptable control, cutleaf eveningprimrose should be 12 inches or less and in the rosette stage. Crop oil concentrate, at 1 pt/A, or non-ionic surfactant at 0.25% v/v, should be added to glyphosate tank mixes for cutleaf eveningprimrose control, including glyphosate formulations that contain a built-in adjuvant system.

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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Manufactured for: **Valent U.S.A. Corporation** P.O. Box 8025 Walnut Creek, CA 94596-8025

Made in U.S.A.

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VALOR® HERBICIDE

EPA Reg. No. 59639-99

ACCEPTED 12/19/2016 Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 59639-99

REVISED RESTRICTIONS AND LIMITATIONS FOR USE IN SOYBEAN

This supplemental label expires December 31, 2019 and must not be used or distributed after this date.

DIRECTIONS FOR USE

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

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR VALOR® HERBICIDE BEFORE APPLYING. USE OF *VALOR* HERBICIDE ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *VALOR* HERBICIDE.

Follow all use directions, recommendations, special instructions and precautions for soybeans found on the container label.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 oz of *Valor* Herbicide per acre during a single growing season.
- Graze treated fields or feed treated hay to livestock no sooner than 21 days after application.

PRECAUTIONS

- Do not tank mix *Valor* Herbicide with flufenacet (Axiom[®], Domain[®]), metolachlor (Dual[®] Magnum, Dual [®]II Magnum, Boundary[®]) or dimethenamid (Frontier[®] or Outlook[®]) within 14 days of planting soybeans, unless soybeans are planted under no-till or minimum tillage conditions on wheat stubble or no-till field corn stubble.
- Do not irrigate when soybeans are cracking.

TIMING TO SOYBEANS

Valor Herbicide may be applied to soybeans prior to planting or preemergence (after planting). Preemergence application of *Valor* Herbicide must be made within 3 days after planting and prior to soybean emergence. Application after the soybeans have begun to crack, or are emerged, will result in severe crop injury. Application should not be made when soybeans have begun to crack. Select *Valor* Herbicide rate from table **Broadleaf Weeds Controlled by Residual Activity of** *Valor* **Herbicide** on the container label. according to anticipated weed spectrum.

TIMING TO WEEDS

Burndown – Preemergence to Soybeans, Postemergence to Weeds

Valor Herbicide, applied as part of a burndown program, may be used for residual 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 the table below **Tank Mix Partners for Control of Emerged Weeds in Reduced Tillage Soybeans**. Apply Valor Herbicide with ground equipment before planting, during planting or within 3 days after planting, **but before the crop emerges**. To ensure thorough coverage, use a minimum of 15 gal of spray solution per acre. Refer to

tank mix partner's label for recommended application pressure. All *Valor* Herbicide tank mixes applied to assist in the control of emerged weeds must be applied with crop oil concentrate or methylated seed oil at 1 to 2 pt/A or a non-ionic surfactant at 0.25% v/v.

INCREASING SPEED OF GLYPHOSATE BURNDOWN ACTIVITY

Valor Herbicide, at rates as low as 1 oz/A, may be tank mixed with glyphosate (Roundup[®]) to increase the speed of burndown activity compared to glyphosate applied alone. Residual weed control will not be provided at rates lower than 2 oz/A; however, suppression of the weeds listed in the table **Weeds Suppressed by Residual Activity of** *Valor* **Herbicide** on the container label, may occur at *Valor* Herbicide rates as low as 1 oz/A.

TANK MIXES

Valor Herbicide may be tank mixed with the herbicides listed in the table below **Tank Mix Partners for Control of Emerged Weeds in Reduced Tillage Soybeans** for increased burndown activity, additional residual broadleaf and/or additional grass control. Refer to tank mix partner's label for adjuvant recommendations.

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

TANK MIX PARTNER	TARGET WEEDS ¹
2,4-D LVE	Marestail
	Giant Ragweed
	Dandelion
paraquat	Annual Grasses
	Henbit
glyphosate	General Burndown
Select Max [®] with Inside Technology™	Annual Grasses
Scepter® 70 DG	Cocklebur
·	Common Sunflower
Weedmaster [®]	Marestail
	Giant Ragweed
	Dandelion

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

ADDITIONAL RESIDUAL BROADLEAF CONTROL

Valor Herbicide can be tank mixed with metribuzin, Firstrate[®], Lorox[®], Pursuit[®], Python[®], Squadron[®], Scepter or Steel[®] for additional broadleaf control.

ADDITIONAL RESIDUAL GRASS CONTROL

Valor Herbicide can be tank mixed with pendimethalin or Command[®] for additional grass control. In the states of Alabama, Arkansas, Delaware, Georgia, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas and Virginia, *Valor* Herbicide can be tank mixed with microencapsulated acetochlor (Warrant[®]) at 2 oz/A. Tank mixes with flufenacet (Axiom or Domain), metolachlor (Dual products or Boundary) or dimethenamid (Frontier or Outlook) may result in severe injury to soybeans when application is followed by prolonged periods of cool wet weather and must not be used with *Valor* Herbicide.

ROUNDUP READY PROGRAM

Valor Herbicide may be applied as part of a burndown program or preemergence in conventional tillage programs, 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 Weeds Suppressed by Residual Activity of Valor Herbicide and Weeds Controlled by Fall and Spring Preplant Burndown Programs on the Valor container label in the Roundup Ready programs. A sequential post emergence application of glyphosate will be required to control weeds not controlled by Valor Herbicide.

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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