



FOR CONTROL AND/OR SUPPRESSION OF CERTAIN WEEDS IN CLOVER, COTTON, DRY BEANS, FIELD CORN; FIELD PEAS; FLAX, LENTILS, PEANUT, SOYBEAN, SUGARCANE, SUNFLOWER AND SAFFLOWER, SWEET POTATO, WHEAT, FALLOW LAND AND TO MAINTAIN BARE GROUND ON NON-CROP AREAS OF FARMS.

Active Ingredient	By Wt
Flumioxazin*	41.4%
Other Ingredients	58.6%
Total	100.0%

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

Valor® EZ Herbicide² is a suspension concentrate containing 41.4% active ingredient.

EPA Reg. No. 59639-221
EPA Est. 228-IL-1[ⓧ], 39578-TX-1[©], 5481-ID-1[Ⓜ],
62171-MS-1[Ⓜ], 70815-GA-2[Ⓜ]

Superscript is first letter of lot number.

**KEEP OUT OF REACH OF CHILDREN
SEE BELOW FOR ADDITIONAL
PRECAUTIONARY STATEMENTS.**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

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

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material including 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 field peas; flax; lentils; safflower; sunflower and wheat, 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 or rinsate.

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, including 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

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, including 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 here-in 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

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or weeds to this product, injury caused by drift, and injury to rotational crops caused by carry-over 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

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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 later, 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.

Always read and follow the restrictions and limitations for all products whether used alone or in a tank mix. The most restrictive labeling of any product used applies in tank mixtures, including all crop rotational and other crop restrictions.

Resistance Management

For resistance management, *Valor* EZHerbicide² is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to *Valor* EZHerbicide² and other Group 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

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To delay herbicide resistance take one or more of the following steps:

- Rotate the use of *Valor* EZHerbicide² or other Group 14 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes or to find out if suspected resistant weeds have been found in their region.
- For further information or to report lack of performance or suspected resistance, contact Valent U.S.A. LLC at 800-898-2536 or at www.valent.com.

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PRODUCT INFORMATION

- *Valor* EZ Herbicide² provides residual control of susceptible weeds.
- *Valor* EZ Herbicide² provides additional burndown activity when used as part of a burndown program.
- *Valor* EZ Herbicide² can be applied as part of a fall burndown program for control of susceptible winter annuals.
- *Valor* EZ Herbicide² 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* EZ Herbicide² can be used on farms for non-selective vegetation control to maintain bare ground non-crop areas that must be kept weed free.
- ***Valor* EZ Herbicide², 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. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.**

Valor EZ Herbicide² Rate Summary	
Fl Oz of Valor EZ Herbicide²	Pounds of Flumioxazin
2	0.063
4	0.125
6	0.188
8	0.250
12	0.375
24	0.750

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 must 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.
- Apply post-directed and layby applications of Valor EZ Herbicide² only to healthy growing crops.

Before using spray equipment to apply other products to crop foliage follow cleanup procedures identified in this label. 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 EZ Herbicide² in soil for residual weed control. Dry weather following applications of Valor EZ Herbicide² may reduce effectiveness. However, when adequate moisture is received after dry conditions, Valor EZ Herbicide² will control susceptible germinating weeds. Valor EZ Herbicide² 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 EZ Herbicide² 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, apply Valor EZ Herbicide² as part of a burndown program to actively growing weeds. Applying Valor EZ Herbicide² under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply Valor EZ Herbicide² 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 EZ Herbicide² 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

Only apply Valor EZ Herbicide² to healthy crops labeled for postemergence use. Do not apply Valor EZ Herbicide² to crops that have been weakened by disease, drought, flooding, excessive fertilization, soil salts, previously applied pesticides, nematodes, insects or winter injury.

Rainfastness

Valor EZ Herbicide² is rainfast one hour after application. Do not make applications if rain is expected within one hour of application or postemergence efficacy may be reduced.

Soil Characteristics

Application of Valor EZ Herbicide² 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 EZ Herbicide² 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 gal of spray solution per acre for conventional tillage applications. Nozzle selection must meet manufacturer's gallonage and pressure guidelines 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 must meet manufacturer's gallonage and pressure guidelines for postemergence herbicide application. Do not use flood jet nozzles.

Postemergence Application (Emerged Crop)

Check use directions for specific crops in which *Valor* EZ Herbicide² 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 must meet manufacturer's gallonage and pressure guidelines for postemergence herbicide application.

ADDITIVES

Burndown Application (Prior to Crop Emergence)

Postemergence control of weeds from *Valor* EZ Herbicide² tank mixes will require the addition of an agronomically approved adjuvant to the spray mixture. When an adjuvant is to be used with *Valor* EZ Herbicide², 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* EZ Herbicide² as part of a burndown program. Some tank mix partners, for example Roundup PowerMAX[®], 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* EZ Herbicide². The addition of a crop oil concentrate or methylated seed oil may increase the burndown activity on certain weeds including cutleaf Evening-primrose and Carolina geranium. Verify mixing compatibility qualities by a jar test.

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, 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 EZ HERBICIDE²

When using *Valor* EZ Herbicide² and an adjuvant, including in stale seed bed, layby, hooded/shielded or reduced tillage situations, perform a jar test before mixing commercial quantities of *Valor* EZ Herbicide², when using *Valor* EZ Herbicide² 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. Use water from the same source and temperature as which will be used in the spray tank mixing operation.
2. Add 1 g of *Valor* EZ Herbicide² to the quart jar for every 3 fl oz of *Valor* EZ Herbicide² per acre being applied (4 g if 12 fl oz/A is the desired *Valor* EZ Herbicide² 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. Question the choice of adjuvant if any of the following conditions are observed:
 - 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* EZ Herbicide², 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 sulfonyleurea 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* EZ Herbicide². If two or more products were tank mixed prior to *Valor* EZ Herbicide² application, follow the most restrictive cleanup procedure.

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 gallon of spray solution.

3. While agitating, slowly add *Valor* EZ Herbicide² to the spray tank. Agitation creates a rippling or rolling action on the water surface.
4. If tank mixing *Valor* EZ Herbicide² 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.
5. Add any required adjuvants.
6. Fill spray tank to desired level with water. **Continue agitation until all spray solution has been applied.**
7. Mix only the amount of spray solution that can be applied the day of mixing. Apply *Valor* EZ Herbicide² within 6 hours of mixing.

SPRAYER CLEANUP

Spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following *Valor* EZ Herbicide² application. After *Valor* EZ Herbicide² 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 gallon of 3% household ammonia (or equivalent) for every 100 gallons 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* EZ Herbicide² from the spray system, add a tank cleaner for example "Valent Tank Cleaner" from Valent U.S.A. LLC, 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.

Thoroughly clean spray equipment, including all tanks, hoses, booms, screens and nozzles, cleaned before it is used to apply postemergence pesticides. Equipment with *Valor* EZ Herbicide² residue remaining in the system may result in crop injury to the subsequently treated crop.

APPLICATION EQUIPMENT

Ensure application equipment is clean and in good repair, nozzles are uniformly spaced on the boom and frequently checked for accuracy.

BROADCAST APPLICATION

Apply *Valor* EZ Herbicide², and *Valor* EZ Herbicide² 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.

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:

Restrictions

- 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* EZ Herbicide² in 7 to 10 gallons of water per acre. Application at less than 7 gallons per acre may provide inadequate control. When used for preemergence weed control, apply *Valor* EZ Herbicide² in 5 to 10 gallons of water per acre. The higher gallonage applications afford more consistent weed control. Do not exceed the nozzle manufacturer's specified 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, for example 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 selection. 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 directions 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. Restriction: 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* EZ Herbicide² applied corresponds to the specified rate.

Apply *Valor* EZ Herbicide² 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, 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 if the need arises.
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.
6. 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, for example 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, discharge the water from the public water system 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* EZ Herbicide². Application of dry bulk fertilizer with *Valor* EZ Herbicide² provides weed control equal to, or slightly below, the same rate of *Valor* EZ Herbicide² applied in liquid carriers, due to better coverage with application via spray equipment. Follow label directions for *Valor* EZ Herbicide² 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.

Do not use ammonium nitrate and/or limestone as the sole source of fertilizer, as the *Valor* EZ Herbicide² 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* EZ Herbicide² mixture for sale.

Valor EZ Herbicide² 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 fl oz of *Valor* EZ Herbicide². Use a minimum of 6 pt of the *Valor* EZ Herbicide² slurry 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* EZ Herbicide² required can be calculated with the following formula:

fluid ounces of <i>Valor</i> EZ Herbicide ² per ton of fertilizer	=	fluid ounces of <i>Valor</i> EZ Herbicide ² per acre	x	2000	÷	pounds of fertilizer per acre
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Thoroughly clean dry fertilizer blending equipment after *Valor* EZ Herbicide² 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* EZ Herbicide². 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 gallon 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* EZ Herbicide² 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* EZ Herbicide².**

Application Rates	Crops	Rotation Intervals
1 fl oz/A	Cotton (no-till or strip-till only)	14 days ⁽¹⁾
1.5 to 2 fl oz/A	Cotton (no-till or strip-till only)	21 days ⁽¹⁾
2 fl 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 fl 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
Up to 4 fl oz/A	Sugarcane	Immediately
	Alfalfa, Canola, 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
6 to 12 fl oz/A	Cotton, Field Corn, Peanut, Rice, Sorghum, Soybean, Sunflower, Tobacco and Wheat	9 months
	Alfalfa, Canola, Sugar Beet and all other crops not listed ⁽²⁾	12 months if soil is tilled prior to planting
	Trees can be transplanted 2 months after an application of <i>Valor</i> EZ Herbicide ² ⁽³⁾	18 months if no tillage is performed

⁽¹⁾ 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⁾ Transplanted apple, apricot, avocado, bushberries (including blueberry), cherry, fig, grape, grapefruit, lemon, nectarine, olive, orange, peach, pear, plum (including dried plum), tangerine and tree nuts (including pistachio) can be planted 2 months after a *Valor* EZ Herbicide² application of 2 to 12 fl oz/A.

Table 1. Broadleaf Weeds Controlled by Residual Activity of Valor EZ Herbicide²

BROADLEAF WEED SPECIES

Section A

Common Name	Scientific Name	Organic Matter	Soil Type	Application Rate
Carpetweed	<i>Mollugo verticillata</i>	Up to 5%	All Soil Types	2 fl oz/A
Chickweeds				
Common	<i>Stellaria media</i>			
Mouseear	<i>Cerastium vulgatum</i>			
Dandelion	<i>Taraxacum officinale</i>			
Eclipta	<i>Eclipta prostrate</i>			
Evening-primrose, Cutleaf	<i>Oenothera laciniata</i>			
Field Pennycress*	<i>Thlaspi arvense</i>			
Florida Pusley	<i>Richardia scabra</i>			
Henbit	<i>Lamium amplexicaule</i>			
Lambsquarters, Common	<i>Chenopodium album</i>			
Little Mallow	<i>Malva parviflora</i>			
Marestail/Horseweed	<i>Conyza canadensis</i>			
Mayweed/False Chamomile	<i>Matricaria maritima</i>			
Nightshades				
Black	<i>Solanum nigrum</i>			
Eastern Black	<i>Solanum ptycanthum</i>			
Hairy	<i>Solanum sarrachoides</i>			
Pigweeds				
Redroot	<i>Amaranthus retroflexus</i>			
Smooth	<i>Amaranthus hybridus</i>			
Spiny Amaranth	<i>Amaranthus spinosus</i>			
Tumble	<i>Amaranthus albus</i>			
Prickly Lettuce	<i>Lactuca serriola</i>			
Prickly Sida (Teaweed)	<i>Sida spinosa</i>			
Puncturevine	<i>Tribulus terrestris</i>			
Purslane, Common	<i>Portulaca oleracea</i>			
Radish, Wild	<i>Raphanus raphanistrum</i>			
Redmaids	<i>Calandrinia ciliata</i> var. <i>menziessii</i>			
Shepherd's-purse	<i>Capsella bursa-pastoris</i>			
Smallflower Morningglory	<i>Jacquemontia tamnifolia</i>			
Sowthistle, Prickly*	<i>Sonchus asper</i>			
Spotted Spurge	<i>Euphorbia maculate</i>			
Venice Mallow	<i>Hibiscus trionum</i>			

*Not for use in California.

(continued)

Table 1. Broadleaf Weeds Controlled by Residual Activity of Valor EZ Herbicide²

Section B

All weeds listed in Section A plus:

Common Name	Scientific Name	Organic Matter	Soil Type	Application Rates ⁽²⁾
Coffee Senna Common Ragweed ⁽¹⁾ False Chamomile* Florida Beggarweed Golden Crownbeard Hairy Indigo	<i>Cassia occidentalis</i> <i>Ambrosia artemisiifolia</i> <i>Tripleurospermum maritima</i> <i>Desmodium tortuosum</i> <i>Verbesina encelioides</i> <i>Indigofera hirsute</i>	Up to 3%	All Soil Types	2 fl oz/A Cotton and Dry Bean 2.5 fl oz/A Field Corn and Soybean 3 fl oz/A Peanut and all other labeled crops
Hemp Sesbania Jimsonweed Kochia London Rocket* Morningglories ⁽³⁾ Entireleaf Ivyleaf Red/Scarlet Tall Mustard, Wild Palmer Amaranth Spurred Anoda Tropic Croton Waterhemp ⁽¹⁾ Common Tall Wild Poinsettia Yellow Rocket*	<i>Sesbania exaltata</i> <i>Datura stramonium</i> <i>Kochia scoparia</i> <i>Sisymbrium irio</i> <i>Ipomoea hederacea</i> var. <i>integriuscula</i> <i>Ipomoea hederacea</i> <i>Ipomoea coccinea</i> <i>Ipomoea purpurea</i> <i>Brassica kaber</i> <i>Amaranthus palmeri</i> <i>Anoda cristata</i> <i>Croton glandulosus</i> <i>Amaranthus rudis</i> <i>Amaranthus tuberculatus</i> <i>Euphorbia heterophylla</i> <i>Barbarea vulgaris</i>	3 to 5%	Coarse and Medium Soils: (sandy loam, loamy sand, loamy, silt-loam, silt, sandy clay, sandy clay loam) Fine Soils: (silty clay, silty clay loam, clay, clay loam)	2 fl oz/A Cotton and Dry Bean 2.5 fl oz/A Field Corn and Soybean 3 fl oz/A Peanut and all other labeled crops 2 fl oz/A Cotton and Dry Bean 3 fl oz/A Field Corn, Peanut, Soybean and all other labeled crops

*Not for use in California.

⁽¹⁾ A postemergence herbicide, including Cobra[®] Herbicide, Phoenix[®] Herbicide glyphosate (Roundup Ready[®] soybeans only) may be needed following a preemergence application of Valor EZ Herbicide² to adequately control common ragweed or waterhemp in soybean fields with heavy pressure.

⁽²⁾ Valor EZ Herbicide² will provide residual control of these weeds at 2 fl oz/A when applied under a cotton canopy.

⁽³⁾ Morningglory 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* EZ Herbicide² Application Rates

Broadleaf Weed Species					
Common Name	Scientific Name	Organic Matter	Application Rates		
Bristly Starbur	<i>Acanthospermum hispidum</i>	Up to 5%	2 to 3 fl oz/A		
Copperleaf, Hophornbeam	<i>Acalypha ostryifolia</i>				
Ragweed, Giant	<i>Ambrosia trifida</i>				
Russian Thistle	<i>Salsola iberica</i>				
Smartweeds					
Ladysthumb	<i>Polygonum persicaria</i>				
Pennsylvania	<i>Polygonum pennsylvanicum</i>				
Smellmelon*	<i>Cucumis melo</i>				
Velvetleaf	<i>Abutilon theophrasti</i>				
Wild Buckwheat	<i>Polygonum convolvulus</i>				
Wormwood, Biennial	<i>Artemisia biennis</i>				
Grass Weed Species					
Barnyardgrass	<i>Echinochloa crus-galli</i>			Up to 5%	1.5 to 3 fl oz/A
Bluegrass, Annual	<i>Poa annua</i>				
Crabgrass, Large	<i>Digitaria sanguinalis</i>				
Foxtail, Giant	<i>Setaria faberi</i>				
Goosegrass	<i>Eleusine indica</i>				
Lovegrass, California	<i>Eragrostis diffusa</i>				
Panicums					
Fall	<i>Panicum dichotomiflorum</i>				
Texas	<i>Panicum texanum</i>				
Ryegrass, Italian*	<i>Lolium multiflorum</i>				
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>				
Cheat	<i>Bromus secalinus</i>				
Downy Brome*	<i>Bromus tectorum</i>				

*Not for use in California.

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

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 EZ Herbicide², at 2 to 4 fl 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* EZ Herbicide²; Table 3, Weeds Controlled by Fall and Spring Preplant Burndown Programs; and Table 7, Weeds Controlled by Residual Activity of *Valor* EZ Herbicide². If weeds have emerged at the time of application, use *Valor* EZ Herbicide² in combination with a labeled burndown herbicide. *Valor* EZ Herbicide² can be used in a fall burndown or fallow seedbed program, 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.

Weeds controlled by postemergence or residual activity are listed in Table 3.

Preplant burndown treatment tank mixes and rates are:

Herbicide	Product Rate
Program 1⁽¹⁾	
<i>Valor</i> EZ Herbicide ² Plus	2 to 3 fl oz/A
glyphosate Plus	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of Roundup Original [®])
2,4-D LVE (2,4-D for use on preplant soybeans only) Plus	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of 2,4-D 4 LVE)
NIS + AMS	0.5% v/v + 17 lb/100 gals of water

or

Program 2⁽¹⁾	
<i>Valor</i> EZ Herbicide ² Plus	2 to 3 fl oz/A
glyphosate Plus	0.5 to 1.0 lb ai/A (equivalent to 1 to 2 pt/A of Roundup Original)
COC ⁽²⁾ or NIS + AMS	1pt/A or 0.5% v/v + 17 lb/100 gals of water

or

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

⁽¹⁾Dicamba (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 of emerged broadleaves. Refer to dicamba label for rotational restrictions.

⁽²⁾Crop oil concentrate has been found to increase glyphosate burndown of emerged cutleaf Evening-primrose and Carolina geranium.

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

Weeds Controlled ⁽¹⁾		Postemergence			Residual
		Program 1	Program 2	Program 3	
Common Name	Scientific Name	Weeds 3 inches or less			
Chamomile, False	<i>Matricaria maritima</i>	Yes	Yes	No	Yes
Cheatgrass	<i>Bromus tectorum</i>	Yes	Yes	No	Yes
Chickweed, Common	<i>Stellaria media</i>	Yes	Yes	No	Yes
Chickweed, Mouseear	<i>Cerastium vulgatum</i>	Yes	Yes	No	Yes
Cockle, White	<i>Silene latifolie</i>	No	Yes	Yes	Yes
Dandelion	<i>Taraxacum officinale</i>	Yes	No	Yes ⁽²⁾	Yes
Deadnettle, Purple	<i>Lamium purpureum</i>	Yes	Yes	Yes	Yes
Groundsel, Cressleaf	<i>Senecio glabellus</i>	Yes	Yes	-	Yes
Henbit	<i>Lamium amplexicaule</i>	Yes	Yes	Yes	Yes
Kochia	<i>Kochia scoparia</i>	Yes	Yes	Yes	Yes
Marestail/Horseweed	<i>Conyza canadensis</i>	Yes	Yes ⁽³⁾	Yes	Yes
Mallow, Common	<i>Malva neglecta</i>	Yes	Yes	No	Yes
Prickly Lettuce	<i>Lactuca serriola</i>	Yes	Yes	Yes	Yes
Wormwood, Biennial	<i>Artemisia biennis</i>	Yes	Yes	Yes	Yes
Weeds 12 inches or less					
Canola, Volunteer	<i>Brassica napus</i>	Yes	Yes	Yes	Yes
Carolina Geranium	<i>Geranium carolinianum</i>	Yes	Yes	Yes	-
Evening-primrose, Cutleaf ⁽⁴⁾	<i>Oenothera laciniata</i>	Yes	Yes	Yes	Yes
Flixweed	<i>Descurainia sophia</i>	Yes	Yes	Yes	Yes
Mustard, Tansy	<i>Descurainia pinnata</i>	Yes	Yes	Yes	Yes
Mustard, Wild	<i>Brassica kaber</i>	Yes	Yes	Yes	Yes
Shepherd's-purse	<i>Capsella bursa-pastoris</i>	Yes	Yes	Yes	Yes

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

⁽²⁾ Use 1 lb ai/A of 2,4-D LVE (equivalent to 2 pt/A of 2,4-D 4 LVE) for control of emerged dandelion.

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

⁽⁴⁾ Use Program 1 to control cutleaf Evening-primrose that are nearing 12 inches in height or are past the rosette stage.

Use Programs 2 or 3 to control cutleaf Evening-primrose that are 12 inches or less and in the rosette stage.

SPRING BURNDOWN PROGRAMS

Valor EZ Herbicide² 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* EZ Herbicide² 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 EZ Herbicide² can be used at 1 to 3 fl oz/A with labeled preplant burndown herbicides to enhance the speed of burndown and increase weed spectrum.

Valor EZ Herbicide² can be used at 1 to 3 fl 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.

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

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* EZ Herbicide² can be used at 1 to 2 fl 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* EZ Herbicide² application and planting of conventionally tilled cotton.
- A minimum of 14 days must pass, and 1 inch of rainfall/irrigation must occur, between *Valor* EZ Herbicide² application and planting of no-till or strip-till cotton when a *Valor* EZ Herbicide² rate of 1 fl oz/A is used and 21 days when a *Valor* EZ Her-

bicide² rate of 1.5 to 2 fl oz/A is used. The field must contain the stubble from the previous crop.

- *Valor* EZ Herbicide² 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 EZ Herbicide², at 2 to 4 fl 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* EZ Herbicide² in combination with a labeled burndown herbicide.

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

SPRING BURNDOWN PROGRAMS

Valor EZ Herbicide², at 1 to 2 fl 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)

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* EZ Herbicide² can be used at 1 to 2 fl 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* EZ Herbicide² application and planting of rice, sorghum, 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 EZ Herbicide² 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).

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

SPRING BURNDOWN PROGRAMS

Valor EZ Herbicide² 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 PEAS, FLAX, LENTIL, SAFFLOWER, SUNFLOWER AND SPRING WHEAT (Preplant to Crop)

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* EZ Herbicide² 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.
- Do not mix *Valor* EZ Herbicide² 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 EZ Herbicide² can be used at 2 to 4 fl 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* EZ Herbicide² application. Refer to most restrictive label for minimum interval between application and planting.

DIRECTIONS FOR USE IN FALLOW LAND

Valor EZ Herbicide² may be used as a preemergence fallow treatment. Weeds controlled by residual activity are listed in Table 1.

Valor EZ Herbicide², at 2 to 4 fl 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* EZ Herbicide² in combination with a labeled fallow herbicide. Abnormally warm or wet winters will reduce the length of weed control observed in the spring.

Valor EZ Herbicide², at 1 to 4 fl 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 CLOVER AND CLOVER GROWN FOR SEED

For Use in Idaho, Oregon and Washington Only

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 4 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 4 fl oz of *Valor* EZ Herbicide² per acre per year.
- 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

- Applications to clover with 6 inches of growth will result in burning of treated leaves and stems. **Understand and accept this risk before using *Valor* EZ Herbicide² 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* EZ Herbicide² with an adjuvant).
- Application with paraquat can be used to burndown winter annuals prior to winter dormant period.
- Application to mixed clover grass stands may result in unacceptable injury to the grass.

TIMING TO CLOVER

Valor EZ Herbicide² 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* EZ Herbicide². 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 sheepling-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* EZ Herbicide² 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* EZ Herbicide². Make applications as soon as possible after cutting and removing clover to minimize injury to clover growth.

Postemergence Dodder Suppression

Apply *Valor* EZ Herbicide² 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

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make more than 2 applications of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 4 fl oz of *Valor* EZ Herbicide² per acre per year.
- Do not make a sequential *Valor* EZ Herbicide² application within 30 days of the first *Valor* EZ Herbicide² application.
- Do not apply within 60 days of harvest.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

Hooded, Shielded and Layby Application

For best results, apply *Valor* EZ Herbicide² to actively growing weeds within the growth stages indicated in this label. Applying *Valor* EZ Herbicide² under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply *Valor* EZ Herbicide² 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* EZ Herbicide² is most effective when applied under sunny conditions at temperatures above 65°F.

Valor EZ Herbicide² is rainfast one hour after application. Do not make applications if rain is expected within one hour of application or postemergence efficacy may be reduced.

HERBICIDE RATE

Hooded, Shielded and Layby Application

For postemergence weed control, apply *Valor* EZ Herbicide² through a hooded or shielded sprayer or at layby, at 2 fl 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* EZ Herbicide². Weeds that are controlled through residual activity of *Valor* EZ Herbicide² are listed in Table 1. Weeds that are suppressed by residual activity of *Valor* EZ Herbicide² are listed in Table 2.

Table 4. Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of Valor EZ Herbicide² Tank Mixes With Glyphosate or MSMA in Cotton

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

⁽¹⁾ Valor EZ Herbicide² 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 gallons spray solution per treated acre. Use 20 to 30 gallons per treated acre under heavy weed pressure. Nozzle selection must meet manufacturer's gallonage and pressure guidance 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* EZ Herbicide² 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. Verify mixing compatibility qualities 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.**

APPLICATION EQUIPMENT

Apply *Valor* EZ Herbicide² tank mixes, with ground equipment using standard commercial sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. Application equipment must be clean and in good repair. Nozzles must meet manufacturer's guidelines for spray pattern and placement on spray boom and must be checked frequently for accuracy.

TIMING TO COTTON Hooded and Shielded Application

Valor EZ Herbicide² 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* EZ Herbicide² 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* EZ Herbicide² applications. *Valor* EZ Herbicide² application must be directed to the lower 2 inches of the cotton stem to avoid crop injury.

TIMING TO WEEDS

Valor EZ Herbicide² tank mix applications must be made to weeds within the height range given in Table 4.

TANK MIXES

Valor EZ Herbicide² 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* EZ Herbicide² 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	X	X

⁽¹⁾ For use only in cotton with the Roundup Ready gene.

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 (garbanzo bean); guar; lablab bean and lentil.

WEED SUPPRESSION IN DRY BEANS AND WEED CONTROL IN CHICKPEAS (GARBANZO BEANS)

Arizona, California, Colorado, Hawaii, Idaho, Montana, Nebraska, Oregon and Washington only

RESTRICTIONS AND LIMITATIONS

- For Chickpeas, do not apply more than 2 fl oz of *Valor* EZ Herbicide² per acre per application. For all other Dry Beans, do not apply more than 1.5 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make more than 1 application of *Valor* EZ Herbicide² per acre per year.
- For Chickpeas, do not apply more than 2 fl oz of *Valor* EZ Herbicide² per acre per year. For all other Dry Beans, do not apply more than 1.5 fl oz of *Valor* EZ Herbicide² per acre per year.

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* EZ Herbicide². On occasion this has resulted in a delay in maturity. Understand and accept these risks before using *Valor* EZ Herbicide².

TIMING TO DRY BEANS AND CHICKPEAS

Valor EZ Herbicide² 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* EZ Herbicide² or Table 8, Weeds Suppressed by Residual Activity of *Valor* EZ Herbicide². Tank mix *Valor* EZ Herbicide² with other labeled herbicides for broad spectrum weed control.

TIMING TO WEEDS

Valor EZ Herbicide² may be applied to dry beans prior to planting or preemergence (after planting). Pre-emergence application of *Valor* EZ Herbicide² 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 EZ Herbicide² can be tank mixed with pendimethalin for additional grass control.

HARVEST AID

All states

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per year.
- Do not harvest within 5 days of application.

Desiccation from *Valor* EZ Herbicide² 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 2% v/v. 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* EZ Herbicide² 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 AND CHICKPEAS

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 must meet manufacturer's gallonage and pressure guidelines for postemergence application.

DIRECTIONS FOR USE IN FIELD CORN

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 fl 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 3 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per year.
- 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* EZ Herbicide², at 2 to 3 fl 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* EZ Herbicide².
- Apply *Valor* EZ Herbicide² at 2 fl 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* EZ Herbicide² at 3 fl oz/A between 14 and 30 days prior to planting field corn.

Burndown Use Directions – For Preplant Applications in Field Corn

Valor EZ Herbicide², 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* EZ Herbicide² 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 application pressures and adjuvant systems.

INCREASING SPEED OF GLYPHOSATE BURNDOWN ACTIVITY

Valor EZ Herbicide², at 1 fl 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 fl oz/A; however, suppression of the weeds in Table 2 may occur at *Valor* EZ Herbicide² rates as low as 1 fl oz/A. Applications of *Valor* EZ Herbicide² at 1 fl oz/A must be made a minimum of 14 days prior to planting field corn.

TANK MIXES

Valor EZ Herbicide² may be tank mixed with the herbicides listed in Table 6 for pre-plant burndown applications.

Refer to tank mix partner's label for adjuvants.

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®	

⁽¹⁾Refer to tank mix product labels for specific application directions.

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), or acetochlor (Surpass or Harness) may result in injury to field corn when application is followed by prolonged periods of cool wet weather.

DIRECTIONS FOR USE IN FIELD PEAS

WEED CONTROL

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 2 fl oz of *Valor* EZ Herbicide² per acre per year.

Many weather related factors, including high wind, splashing or heavy rains or cool conditions at or near crop emergence, may result in peas injury in fields treated with *Valor* EZ Herbicide². On occasion this has resulted in a delay in maturity. Understand and accept these risks before using *Valor* EZ Herbicide².

TIMING TO FIELD PEAS

Valor EZ Herbicide² 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* EZ Herbicide² or Table 8, Weeds Suppressed by Residual Activity of *Valor* EZ Herbicide². Tank mix *Valor* EZ Herbicide² with other labeled herbicides for broad spectrum weed control.

TIMING TO WEEDS

Valor EZ Herbicide² may be applied to field peas prior to planting or preemergence (after planting). Pre-emergence application of *Valor* EZ Herbicide² 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 EZ Herbicide² can be tank mixed with pendimethalin for additional grass control.

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per year.
- Do not harvest within 5 days of application.

Desiccation from *Valor* EZ Herbicide² 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 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* EZ Herbicide² with glyphosate will increase control of emerged weeds and aid in harvest.

TIMING TO FIELD PEAS

Apply *Valor* EZ Herbicide², at 1.5 to 2 fl 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* EZ Herbicide² 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 guidelines for postemergence application.

DIRECTIONS FOR USE IN FLAX

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make more than 2 applications of *Valor* EZ Herbicide² per acre per year at the 1.5 fl oz rate.
- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per year.
- Do not harvest within 5 days of application.

Desiccation from *Valor* EZ Herbicide² 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 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.

TIMING TO FLAX

Apply *Valor* EZ Herbicide², at 1.5 to 2 fl 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 guidelines for postemergence application.

DIRECTIONS FOR USE IN LENTILS

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per year.
- Do not harvest within 5 days of application.

Desiccation from *Valor* EZ Herbicide² 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 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* EZ Herbicide² with glyphosate or paraquat will increase control of emerged weeds and aid in harvest.

TIMING TO LENTILS

Apply *Valor* EZ Herbicide², at 1.5 to 2 fl 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 too early, a reduction in seed quality may occur. Do not spray *Valor* EZ Herbicide² 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 guidelines for postemergence application.

Table 7. Weeds Controlled by Residual Activity of *Valor* EZ Herbicide²

Broadleaf Weed Species				
Common Name	Scientific Name	Organic Matter	Soil Type	Application Rate
Bristly Starbur	<i>Acanthospermum hispidum</i>	Up to 5%	All Soil Types	4 fl oz/A
Carpetweed	<i>Mollugo verticillata</i>			
Chickweeds				
Common	<i>Stellaria media</i>			
Mouseear	<i>Cerastium vulgatum</i>			
Coffee Senna	<i>Cassia occidentalis</i>			
Copperleaf, Hophornbeam	<i>Acalypha ostryifolia</i>			
Dandelion	<i>Taraxacum officinale</i>			
Dodder (suppression only)* ⁽¹⁾	<i>Cuscuta</i> spp.			
Eclipta	<i>Eclipta prostrate</i>			
Evening-primrose, Cutleaf	<i>Oenothera laciniata</i>			
False Chamomile*	<i>Tripleurospermum maritima</i>			
Fiddleneck, Coast*	<i>Amsinckia menziesii</i>			
Field Pennycress*	<i>Thlaspi arvense</i>			
Fleabane, Hairy*	<i>Conyza bonariensis</i>			
Flixweed*	<i>Descurainia spophia</i>			
Florida Beggarweed	<i>Desmodium tortuosum</i>			
Florida Pusley	<i>Richardia scabra</i>			
Golden Crownbeard	<i>Verbesina encelioides</i>			
Groundsel, Common	<i>Senecio vulgaris</i>			
Hairy Indigo	<i>Indigofera hirsuta</i>			
Hemp Sesbania	<i>Sesbania exaltata</i>			
Henbit	<i>Lamium amplexicaule</i>			

*Not for use in California.

(continued)

⁽¹⁾ *Valor* EZ Herbicide² at 4 fl oz/A will provide postemergence dodder suppression when applied in combination with Pursuit Herbicide or Raptor Herbicide at labeled rates. Pursuit Herbicide and Raptor Herbicide require the use of NIS, which will result in burn and stunting of alfalfa. Understand and accept these risks before tank mixing with *Valor* EZ Herbicide².

Table 7. Weeds Controlled by Residual Activity of Valor EZ Herbicide² (continued)

Broadleaf Weed Species				
Common Name	Scientific Name	Organic Matter	Soil Type	Application Rate
Jimsonweed	<i>Datura stramonium</i>	Up to 5%	All Soil Types	4 fl oz/A
Kochia	<i>Kochia scoparia</i>			
Lambsquarters, Common	<i>Chenopodium album</i>			
Little Mallow	<i>Malva parviflora</i>			
London Rocket*	<i>Sisymbrium irio</i>			
Marestail/Horseweed	<i>Conyza canadensis</i>			
Mayweed/False Chamomile*	<i>Matricaria maritima</i>			
Morningglories				
Entireleaf	<i>Ipomoea hederacea</i> var. <i>integriuscula</i>			
Ivyleaf	<i>Ipomoea hederacea</i>			
Red/Scarlet	<i>Ipomoea coccinea</i>			
Smallflower	<i>Jacquemontia tamnifolia</i>			
Tall	<i>Ipomoea purpurea</i>			
Mustard				
Tansy*	<i>Descurainia pinnata</i>			
Tumble*	<i>Sisymbrium altissimum</i>			
Wild	<i>Brassica kaber</i>			
Nettle, Burning*	<i>Urtica urens</i>			
Nightshades				
Black	<i>Solanum nigrum</i>			
Eastern Black	<i>Solanum ptycanthum</i>			
Hairy	<i>Solanum sarrachoides</i>			
Pigweeds				
Palmer Amaranth	<i>Amaranthus palmeri</i>			
Redroot	<i>Amaranthus retroflexus</i>			
Smooth	<i>Amaranthus hybridus</i>			
Spiny Amaranth	<i>Amaranthus spinosus</i>			
Tumble	<i>Amaranthus albus</i>			
Prickly Lettuce (China Lettuce)	<i>Lactuca serriola</i>			
Prickly Sida (Teaweed)	<i>Sida spinosa</i>			
Puncturevine	<i>Tribulus terrestris</i>			
Purslane				
Common	<i>Portulaca oleracea</i>			
Horse*	<i>Trianthema portulacastrum</i>			
Radish, Wild	<i>Raphanus raphanistrum</i>			
Ragweed, Common	<i>Ambrosia artemisiifolia</i>			
Redmaids	<i>Calandrinia ciliata</i> var. <i>menziesii</i>			
Russian Thistle	<i>Salsola iberica</i>			
Shepherd's-purse	<i>Capsella bursa-pastoris</i>			
Smartweeds				
Ladysthumb	<i>Polygonum persicaria</i>			
Pennsylvania	<i>Polygonum pensylvanicum</i>			
Smellmelon*	<i>Cucumis melo</i>			
Sowthistle, Prickly*	<i>Sonchus asper</i>			
Spotted Spurge	<i>Euphorbia maculate</i>			
Spurred Anoda	<i>Anoda cristata</i>			
Tropic Croton	<i>Croton glandulosus</i>			

*Not for use in California.

(continued)

Table 7. Weeds Controlled by Residual Activity of Valor EZ Herbicide² (continued)

Broadleaf Weed Species							
Common Name	Scientific Name	Organic Matter	Soil Type	Application Rate			
Velvetleaf	<i>Abutilon theophrasti</i>	Up to 5%	All Soil Types	4 fl oz/A			
Venice Mallow	<i>Hibiscus trionum</i>						
Waterhemp							
Common	<i>Amaranthus rudis</i>						
Tall	<i>Amaranthus tuberculatus</i>						
White Cockle*	<i>Silene latifolia</i>						
Wild Poinsettia	<i>Euphorbia heterophylla</i>						
Wormwood, Biennial	<i>Artemisia biennis</i>						
Yellow Rocket*	<i>Barbarea vulgaris</i>						
Grass Weed Species							
Barnyardgrass	<i>Echinochloa crus-galli</i>						
Bluegrass, Annual	<i>Poa annua</i>						
Crabgrass, Large	<i>Digitaria sanguinalis</i>						
Foxtail, Giant	<i>Setaria faberi</i>						
Goosegrass	<i>Eleusine indica</i>						
Lovegrass, California	<i>Eragrostis diffusa</i>						
Panicums							
Fall	<i>Panicum dichotomiflorum</i>						
Texas	<i>Panicum texanum</i>						
Ryegrass, Italian*	<i>Lolium multiflorum</i>						
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>						

*Not for use in California.

DIRECTIONS FOR USE IN PEANUT

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 fl oz of Valor EZ Herbicide² per acre per application.
- Do not apply more than 1 application of Valor EZ Herbicide² per acre per year.
- Do not apply more than 3 fl oz of Valor EZ Herbicide² per acre per year.
- Do not irrigate when peanuts are cracking.
- Do not graze treated fields or feed treated hay to livestock.

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 EZ Herbicide². 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 EZ Herbicide² may be reduced.

TIMING TO PEANUTS

Valor EZ Herbicide² may be applied to peanuts prior to planting or preemergence (after planting). Pre-emergence applications of Valor EZ Herbicide² 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. Apply before peanuts have begun to crack. Select Valor EZ Herbicide² rate from Table 1 according to anticipated weed spectrum.

TIMING TO WEEDS

Burndown – Preemergence to Peanuts, Postemergence to Weeds

Valor EZ Herbicide², 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 EZ Herbicide² before planting, during planting or after planting, but before the crop emerges. For control of emerged weeds, tank mix Valor EZ Herbicide² with glyphosate. Refer to glyphosate label for rates and application pressure. To ensure thorough coverage, use a minimum of 15 gals of spray solution per acre. Valor EZ Herbicide² tank mixes applied to assist in the control of emerged weeds must be applied with an adjuvant, including 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 EZ Herbicide² must be applied prior to weed emergence.

ADDITIONAL RESIDUAL GRASS CONTROL: SEQUENTIAL

Valor EZ Herbicide² 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 EZ Herbicide² can be tank mixed with alachlor, metolachlor or Frontier for additional grass and broadleaf weed control. *Valor* EZ Herbicide² 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.

Table 8. Weeds Suppressed by Residual Activity of *Valor* EZ Herbicide² at 1.5 fl oz/A

Common Name	Scientific Name	Organic Matter	Application Rate
Lambsquarters, Common	<i>Chenopodium album</i>	Up to 5%	1.5 fl oz/A
Mustard, Wild	<i>Brassica kaber</i>		
Nightshades			
Black	<i>Solanum nigrum</i>		
Eastern Black	<i>Solanum ptycanthum</i>		
Hairy	<i>Solanum sarrachoides</i>		
Pigweeds			
Palmer Amaranth	<i>Amaranthus palmeri</i>		
Redroot	<i>Amaranthus retroflexus</i>		
Smooth	<i>Amaranthus hybridus</i>		
Spiny Amaranth	<i>Amaranthus spinosus</i>		
Tumble	<i>Amaranthus albus</i>		
Prickly Lettuce (China Lettuce)	<i>Lactuca serriola</i>		
Radish, Wild	<i>Raphanus raphanistrum</i>		

DIRECTIONS FOR USE IN SOYBEAN

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not apply more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per year.
- Graze treated fields or feed treated hay to livestock no sooner than 21 days after application.

PRECAUTIONS

- If *Valor* EZ Herbicide² is tank mixed with flufenacet (Axiom[®], Domain[®]), metolachlor (Dual Magnum, Dual II Magnum, Boundary[®]) or dimethenamid (Frontier or Outlook[®]) and applied within 14 days of planting soybeans, plant under no-till or minimum tillage conditions on wheat stubble or field corn stubble.
- Irrigation when soybeans are cracking may result in severe injury.

TIMING TO SOYBEANS

Valor EZ Herbicide² may be applied to soybeans prior to planting or preemergence (after planting). Pre-emergence application of *Valor* EZ Herbicide² 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. Apply before soybeans have begun to crack. Select *Valor* EZ Herbicide² rate from Table 1 according to anticipated weed spectrum.

TIMING TO WEEDS

Burndown – Preemergence to Soybeans, Postemergence to Weeds

Valor EZ Herbicide², 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* EZ Herbicide² 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 gallons of spray solution per acre. Refer to tank mix partner’s label for rates and application pressures. All *Valor* EZ Herbicide² 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 EZ Herbicide², at rates as low as 1 fl 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 fl oz/A; however, suppression of the weeds in Table 2, may occur at *Valor* EZ Herbicide² rates as low as 1 fl oz/A.

TANK MIXES

Valor EZ Herbicide² 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 selection.

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

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

ADDITIONAL RESIDUAL BROADLEAF CONTROL

Valor EZ Herbicide² can be tank mixed with metribuzin, Firstrate[®], Lorox[®], Pursuit Plus[®], PYTHON[®], Squadron[®], Scepter or Steel[®] for additional broadleaf control.

ADDITIONAL RESIDUAL GRASS CONTROL

Valor EZ Herbicide² 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* EZ Herbicide² 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.

ROUNDUP READY PROGRAM

Valor EZ Herbicide² may be applied as part of a burndown program or preemergence in conventional tillage programs, at 2 to 3 fl 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* EZ Herbicide².

Table 10. Weeds Controlled by Preemergence Application of *Valor* EZ Herbicide²

Broadleaf Weed Species

Common Name	Scientific Name	Organic Matter	Soil Type	Application Rates
Bristly Starbur Carpetweed Chickweeds Common Mouseear Coffee Senna Dandelion Eclipta Evening-primrose, Cutleaf False Chamomile* Filaree Redstem Whitstem Fiddleneck, Coast* Fleabane, Hairy Field Pennycress* Florida Beggarweed Florida Pusley Golden Crownbeard Groundsel, Common	<i>Acanthospermum hispidum</i> <i>Mollugo verticillata</i> <i>Stellaria media</i> <i>Cerastium vulgatum</i> <i>Cassia occidentalis</i> <i>Taraxacum officinale</i> <i>Eclipta prostrata</i> <i>Oenothera laciniata</i> <i>Tripleurospermum maritima</i> <i>Erodium cicutarium</i> <i>Erodium moschatum</i> <i>Amsinckia menziesii</i> <i>Conyza bonariensis</i> <i>Thlaspi arvense</i> <i>Desmodium tortuosum</i> <i>Richardia scabra</i> <i>Verbesina encelioides</i> <i>Senecio vulgaris</i>	Up to 10% ⁽¹⁾	All Soil Types	Sugarcane 6 to 8 fl oz/A To Maintain Bare Ground on Non-Crop Areas of Farms 6 to 12 fl oz/A

*Not for use in California.

(continued)

⁽¹⁾ *Valor* EZ Herbicide² 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.

Table 10. Weeds Controlled by Preemergence Application of Valor EZ Herbicide² (continued)

Broadleaf Weed Species				
Common Name	Scientific Name	Organic Matter	Soil Type	Application Rates
Hairy Indigo	<i>Indigofera hirsuta</i>	Up to 10% ⁽¹⁾	All Soil Types	Sugarcane 6 to 8 fl oz/A To Maintain Bare Ground on Non-Crop Areas of Farms 6 to 12 fl oz/A
Hemp Sesbania	<i>Sesbania exaltata</i>			
Henbit	<i>Lamium amplexicaule</i>			
Jimsonweed	<i>Datura stramonium</i>			
Kochia	<i>Kochia scoparia</i>			
Lambsquarters, Common	<i>Chenopodium album</i>			
Mallow				
Common (Cheeseweed)	<i>Malva neglecta</i>			
Little	<i>Malva parviflora</i>			
Horseweed/Marestail	<i>Conyza canadensis</i>			
Mayweed/False Chamomile*	<i>Matricaria maritima</i>			
Morningglories				
Entireleaf	<i>Ipomoea hederacea</i> var. <i>integriscula</i>			
Ivyleaf	<i>Ipomoea hederacea</i>			
Red/Scarlet	<i>Ipomoea coccinea</i>			
Smallflower	<i>Jacquemontia tamnifolia</i>			
Tall	<i>Ipomoea purpurea</i>			
Mustards				
London Rocket*	<i>Sisymbrium irio</i>			
Tansey*	<i>Desurainia pinnata</i>			
Tumble	<i>Sisymbrium altissimum</i>			
Wild	<i>Brassica kaber</i>			
Nettle, Burning*	<i>Urtica urens</i>			
Nightshades				
Black	<i>Solanum nigrum</i>			
Eastern Black	<i>Solanum ptycanthum</i>			
Hairy	<i>Solanum sarrachoides</i>			
Pigweeds				
Palmer Amaranth	<i>Amaranthus palmeri</i>			
Redroot	<i>Amaranthus retroflexus</i>			
Smooth	<i>Amaranthus hybridus</i>			
Spiny Amaranth	<i>Amaranthus spinosus</i>			
Tumble	<i>Amaranthus albus</i>			
Prickly Lettuce (China Lettuce)	<i>Lactuca serriola</i>			
Prickly Sida (Teaweed)	<i>Sida spinosa</i>			
Puncturevine	<i>Tribulus terrestris</i>			
Purslane				
Common	<i>Portulaca oleracea</i>			
Horse*	<i>Trianthema portulacastrum</i>			
Radish, Wild	<i>Raphanus raphanistrum</i>			
Ragweed, Common	<i>Ambrosia artemisiifolia</i>			
Redmaids	<i>Calandrinia ciliata</i> var. <i>menziessi</i>			
Redweed	<i>Melochia corchorifolia</i>			
Shepherd's-purse	<i>Capsella bursa-pastoris</i>			

*Not for use in California.

(continued)

⁽¹⁾ Valor EZ Herbicide² 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.

Table 10. Weeds Controlled by Preemergence Application of Valor EZ Herbicide² (continued)

Broadleaf Weed Species							
Common Name	Scientific Name	Organic Matter	Soil Type	Application Rates			
Smellmelon*	<i>Cucumis melo</i>	Up to 10% ⁽¹⁾	All Soil Types	Sugarcane 6 to 8 fl oz/A To Maintain Bare Ground on Non-Crop Areas of Farms 6 to 12 fl oz/A			
Sowthistle, Annual	<i>Sonchus oleraceus</i>						
Spotted Spurge	<i>Euphorbia maculata</i>						
Spurred Anoda	<i>Anoda cristata</i>						
Thistle, Russian	<i>Salsola iberica</i>						
Tropic Croton	<i>Croton glandulosus</i>						
Venice Mallow	<i>Hibiscus trionum</i>						
Waterhemp							
Common	<i>Amaranthus rudis</i>						
Tall	<i>Amaranthus tuberculatus</i>						
Wild Poinsettia	<i>Euphorbia heterophylla</i>						
White Cockle*	<i>Silene latifolia</i>						
Wormwood, Biennial	<i>Artemisia biennis</i>						
Yellow Rocket*	<i>Barbarea vulgaris</i>						
Grass Weed Species							
Barnyardgrass	<i>Echinochloa crus-galli</i>						
Bluegrass, Annual	<i>Poa annua</i>						
Crabgrass							
Large	<i>Digitaria sanguinalis</i>						
Smooth	<i>Digitaria ischaemum</i>						
Foxtails							
Bristly	<i>Setaria verticillata</i>						
Giant	<i>Setaria faberi</i>						
Green	<i>Setaria viridis</i>						
Yellow	<i>Setaria glauca</i>						
Goosegrass	<i>Eleusine indica</i>						
Guineagrass	<i>Panicum maximum</i>						
Johnsongrass, Seedling	<i>Sorghum halepense</i>						
Lovegrass, California	<i>Eragrostis diffusa</i>						
Panicum							
Fall	<i>Panicum dichotomiflorum</i>						
Texas	<i>Panicum texaum</i>						
Ryegrass, Italian*	<i>Lolium multiflorum</i>						
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>						

*Not for use in California.

⁽¹⁾ Valor EZ Herbicide² 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.

DIRECTIONS FOR USE IN SUGARCANE

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 8 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not make a sequential application within 14 days of the first application.
- Do not apply more than 4 applications of *Valor* EZ Herbicide² per acre per year at the 3 fl oz rate.
- Do not apply more than 12 fl oz of *Valor* EZ Herbicide² per acre per year.
- Do not apply within 90 days of harvest.

TIMING TO SUGARCANE

Valor EZ Herbicide² may be applied from 2 weeks prior to planting to before the sugarcane emerges, post-directed or at layby. Select the proper *Valor* EZ Herbicide² rate from Table 10 according to anticipated weed spectrum and soil organic matter content for preemergence applications. Select *Valor* EZ Herbicide² 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, Post-emergence to Weeds

Valor EZ Herbicide² 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* EZ Herbicide² **before the crop emerges**. To ensure thorough coverage, use a minimum of 15 gallons of spray solution per acre. All *Valor* EZ Herbicide² 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, for example 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 EZ Herbicide² 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* EZ Herbicide² **before the crop emerges**.

Post-Directed – Postemergence to Sugarcane, Postemergence to Weeds

Make post-directed applications to upright sugarcane varieties after the sugarcane has exceeded 24 inches in height and has begun to joint. Post-directed applications to “PINEAPPLE” varieties or to upright varieties that are less than 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 gals of spray solution per acre. Post-directed applications of *Valor* EZ Herbicide² 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* EZ Herbicide² 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 gallons of spray solution per acre. Layby applications of *Valor* EZ Herbicide² 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* EZ Herbicide² rate based on weed spectrum and weed height from Table 11.

Table 11. Broadleaf Weeds Controlled by Post-Directed or Layby Application of Valor EZ Herbicide² in Sugarcane

Broadleaf Weed Species		Weed Height (inches)	
		3 fl oz/A	4 fl oz/A
Common Name	Scientific Name		
Bindweed, Field ⁽¹⁾	<i>Convolvulus arvensis</i>	4	8
Carpetweed	<i>Mollugo verticillata</i>	4	4
Cocklebur, Common	<i>Xanthium strumarium</i>	4	4
Florida Beggarweed	<i>Desmodium tortuosum</i>	2	2
Hemp Sesbania	<i>Sesbania exaltata</i>	6	8
Jimsonweed	<i>Datura stramonium</i>	4	4
Lambsquarters, Common	<i>Chenopodium album</i>	4	4
Morningglories			
Entireleaf	<i>Ipomoea hederacea</i> var. <i>integrifolia</i>	-	4
Ivyleaf	<i>Ipomoea hederacea</i>	4	4
Pitted	<i>Ipomoea lacunosa</i>	4	6
Red	<i>Ipomoea coccinea</i>	-	4
Tall	<i>Ipomoea purpurea</i>	2	4
Mustard, Wild	<i>Brassica kaber</i>	6	6
Pigweeds			
Palmer Amaranth	<i>Amaranthus palmeri</i>	4	6
Redroot	<i>Amaranthus retroflexus</i>	4	6
Smooth	<i>Amaranthus hybridus</i>	4	6
Plaintain, Broadleaf	<i>Plantago major</i>	6	6
Prickly Sida	<i>Sida spinosa</i>	4	6
Purslanes			
Common	<i>Portulaca oleracea</i>	2	4
Rock	<i>Calandrinia</i> spp.	-	2
Ragweeds			
Common	<i>Ambrosia artemisiifolia</i>	2	2
Giant	<i>Ambrosia trifida</i>	4	4
Rice Flatsedge	<i>Cyperus iria</i>	2	4
Sicklepod	<i>Senna obtusifolia</i>	4	4
Smartweeds			
Ladysthumb	<i>Polygonum persicaria</i>	4	4
Pale	<i>Polygonum lapathifolium</i>	4	4
Pennsylvania	<i>Polygonum pennsylvanicum</i>	4	4
Spotted Spurge	<i>Euphorbia maculata</i>	4	4
Velvetleaf	<i>Abutilon theophrasti</i>	4	6
Venice Mallow	<i>Hibiscus trionum</i>	2	2
Waterhemp			
Common	<i>Amaranthus rudis</i>	2	2
Tall	<i>Amaranthus tuberculatus</i>	2	2

⁽¹⁾ Valor EZ Herbicide² tank mixes will only control the above ground portion of field bindweed. Repeated applications will be needed to control regrowth.

TANK MIXES

Valor EZ Herbicide² 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 adjuvants.

Table 12. Tank Mixes with *Valor* EZ Herbicide² 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	X	X	X
Asulox ^{®(3)}	Annual Grasses		X	X
Evik ^{®(4)}	Annual Grasses		X	X
glyphosate ⁽⁵⁾	Annual and Perennial Weeds	X		X
metribuzin ⁽⁶⁾	Broadleaf Panicum Goosegrass		X	X
Sempra [®]	Purple Nutsedge Yellow Nutsedge	X	X	X
Weedmaster	Annual and Perennial Broadleaf Weeds	X		

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

⁽²⁾ Make post-directed applications to upright sugarcane varieties after the sugarcane has exceeded 24 inches in height. Post-directed applications to "PINEAPPLE" varieties or to upright varieties that are less than 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 feet 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.

ADDITIONAL PREEMERGENCE BROADLEAF CONTROL

Valor EZ Herbicide² can be tank mixed with atrazine or diuron for additional preemergence broadleaf control.

ADDITIONAL PREEMERGENCE GRASS CONTROL

Valor EZ Herbicide² can be tank mixed with Prowl (or other pendimethalin products) for additional pre-emergence grass control provided sugarcane has not emerged.

DIRECTIONS FOR USE IN SUNFLOWER AND SAFFLOWER

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not apply more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per year.
- Do not harvest within 5 days of application.

Desiccation from *Valor* EZ Herbicide² 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 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* EZ Herbicide² 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* EZ Herbicide², at 1.5 to 2 fl 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 guidelines for postemergence application.

DIRECTIONS FOR USE IN SWEET POTATO

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not apply more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 3 fl oz of *Valor* EZ Herbicide² per acre per year.
- Do not apply postemergence to sweet potatoes.
- Do not use greenhouse grown transplants.
- Do not use transplants harvested more than 2 days prior to transplanting.
- Do not use on any sweet potato variety other than "BEAUREGARD", unless user has tested *Valor* EZ Herbicide² 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 EZ Herbicide² must be applied prior to transplanting sweet potatoes.

TIMING TO WEEDS

Preemergence To Weeds

Apply *Valor* EZ Herbicide² 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 fl oz of *Valor* EZ Herbicide² per acre per application.
- Do not apply more than 1 application of *Valor* EZ Herbicide² per acre per year.
- Do not apply more than 2 fl oz of *Valor* EZ Herbicide² per acre per year.

PREPLANT APPLICATIONS, PREEMERGENCE WEED CONTROL

For use in Delaware, Idaho, Kentucky, Maryland, Minnesota, Montana, North Carolina, North Dakota, New Jersey, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Virginia, Washington and Wisconsin 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* EZ Herbicide² application in the states of DE, KY, MD, NC, NJ, SC, TN, VA, PA.
- Plant wheat no sooner than 14 days after *Valor* EZ Herbicide² application in the states of ID, MN, MT, ND, OR, SD, WA, 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 EZ Herbicide², applied as part of a burndown program, at 2 fl 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* EZ Herbicide² 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 application pressure and adjuvant systems.

HARVEST AID

RESTRICTIONS AND LIMITATIONS

- Do not harvest within 10 days of application.

Use Directions

Valor EZ Herbicide², applied at 2 fl 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 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* EZ Herbicide² 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. Select nozzle based on manufacturer's gallonage and pressure guidelines for postemergence application.

TIMING TO WHEAT

Apply *Valor* EZ Herbicide², at 1.5 to 2 fl 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 TO MAINTAIN BARE GROUND ON NON-CROP AREAS OF FARMS

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 EZ Herbicide², when used as directed, can be used on farms 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 EZ Herbicide² 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* EZ Herbicide² can be tank mixed with the herbicides listed in Table 13 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* EZ Herbicide² rates of 6 to 12 fl oz/A are required to provide residual control of the weeds listed in Table 10.

PREEMERGENCE APPLICATION

Apply 6 to 12 fl oz (0.188 to 0.375 lb ai/A) of *Valor* EZ Herbicide² per broadcast acre as a preemergence application. Make preemergence (to weed emergence) applications of *Valor* EZ Herbicide² to a weed-free soil surface. Preemergence applications of *Valor* EZ Herbicide² must be completed prior to weed emergence. Moisture is necessary to activate *Valor* EZ Herbicide² on soil for residual weed control. Dry weather following application of *Valor* EZ Herbicide² may reduce effectiveness. However, when adequate moisture is received after dry conditions, *Valor* EZ Herbicide² will control susceptible germinating weeds.

POSTEMERGENCE APPLICATION

Apply 6 to 12 fl oz (0.188 to 0.375 lb ai/A) of *Valor* EZ Herbicide² 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* EZ Herbicide² activity on emerged weeds. Thorough spray coverage is necessary to maximize the postemergence activity of *Valor* EZ Herbicide². Emerged weeds are controlled postemergence with *Valor* EZ Herbicide², however, translocation of *Valor* EZ Herbicide² 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* EZ Herbicide² occurs when applied in combination with a surfactant to weeds less than 2 inches in height. Use a tank mix partner in combination with *Valor* EZ Herbicide² for the postemergence control of weeds larger than 2 inches. Specified tank mix partners are listed in Table 13.

IMPORTANT: Completely read and follow the label of any potential tank mix partner with *Valor* EZ Herbicide². 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 13. Tank Mix Combinations to Maintain Bare Ground on Non-Crop Areas

glyphosate	2,4-D	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

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.

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