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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

MAR 31 2004

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

James Pensyl  
Valent U.S.A. Corporation  
1600 Riviera Avenue  
PO Box 8025  
Walnut Creek, CA 94596-8025

Dear Mr. Pensyl:

Subject: Add Use on Cotton - Supplemental Labeling  
Valor Herbicide  
EPA Registration No. 59639-99  
Your Submission Dated February 5, 2004

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(B) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.

2. Make the following label changes listed below before you release the product for shipment:

a. Add the following statement:

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.

b. Add the following Run-Off Statements:

Under some conditions this product may have a potential to run-off to surface water or adjacent land. Where possible, use methods which reduce soil erosion, such as no till, limited till and contour plowing; these methods also reduce pesticide run-off. Where feasible, use application techniques such as T-banding and in-furrow techniques which incorporate the pesticide into the soil. 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 is recommended.

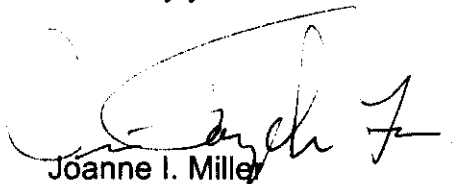
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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

If you have any questions concerning this letter, please contact Mr. James Stone at 703-305-7391.

Sincerely yours,



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

Enclosure

# Supplemental Label



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

## VALOR® Herbicide EPA Reg. No. 59639-99

### VALOR HERBICIDE USE ON: COTTON

#### 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.

#### GENERAL INFORMATION

- VALOR provides residual control of susceptible weeds in cotton.
- VALOR can be applied as part of a fall burndown program for control of susceptible winter annuals.
- VALOR can be applied with a hooded or shielded sprayer, as well as part of a layby application, in cotton for postemergence weed control as well as residual control of susceptible weeds.

#### DIRECTIONS FOR USE IN COTTON

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

MAR 31 2004

#### GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 oz. of VALOR per acre during a single application.
- Do not apply more than 4 oz. of VALOR per acre during a single growing season.
- Do not make a sequential VALOR application within 30 days of the first VALOR application.
- Do not apply within 60 days of harvest.
- Post-directed and layby applications of VALOR should be applied only to healthy growing crops.
- Do not allow spray to come into contact with crop foliage.
- **Spray equipment used to apply VALOR should not be used to apply other materials to any crop foliage.**

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

#### ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

##### Hooded, Shielded and Layby Application

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

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

#### HERBICIDE RATE

##### Hooded, Shielded and Layby Application

For postemergence weed control, VALOR should be applied through a hooded or shielded sprayer or at layby, at 2 oz./A, in combinations with either MSMA or glyphosate, to control the weeds listed in Table 1. Residual weed control can also be obtained through hooded, shielded and layby application of VALOR. Weeds that are controlled through residual activity of VALOR are listed in Table 2. Weeds that are suppressed by residual activity of VALOR are listed in Table 3.

## CARRIER VOLUME AND SPRAY PRESSURE

### Hooded, Shielded and Layby Application

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

## ADDITIVES

### Hooded, Shielded and Layby Application

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

## APPLICATION EQUIPMENT

Apply VALOR tank mixes, with ground equipment using standard commercial sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. All nozzles must be under the hood or behind the shield to ensure no spray solution comes in contact with the cotton. Application equipment should be clean and in good repair. Nozzles should meet manufacturer's recommendations for spray pattern and placement on spray boom and should be checked frequently for accuracy.

## TIMING TO COTTON

### Hooded and Shielded Application

VALOR tank mixes may be applied with a hooded or shielded sprayer after cotton has reached a minimum of 6 inches in height. **Care must be taken to ensure the spray solution or drift does not come in contact with the cotton or severe crop injury can occur.**

### Layby Application

Layby application of VALOR tank mixes may be made once cotton has developed a minimum of 4 inches of bark and has reached a minimum of 18 inches in height. Cotton that is smaller than 18 inches in height and/or has less than 4 inches of bark may be injured by VALOR applications. VALOR application must be directed to the lower 2 inches of bark to avoid crop injury. **Severe crop injury may result if application is made to green or unbarked stem.**

## TIMING TO WEEDS

VALOR tank mix applications must be made to weeds within the height range given in Table 1.

## TANK MIXES

VALOR must be tank mixed with one of the herbicides listed below for postemergence control of the weeds listed in Table 1.

### Tank Mixes with VALOR for Hooded, Shielded, and/or Layby Use in Cotton

TANK MIX PARTNER	TARGET WEEDS	HOODED AND SHIELDED	LAYBY
Glyphosate	Perennial Grasses and Broadleaves	X	X <sup>1</sup>
MSMA	Annual Grasses Yellow Nutsedge	X	X

<sup>1</sup>For use only in cotton with the Roundup Ready® gene.

**Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix product must be followed. VALOR, when applied according to label use directions, will control the weeds listed in Tables 1 and 2. This label makes no claims concerning control of other weed species.**

## DIRECTIONS FOR USE IN SPRING BURNDOWN PROGRAM (Preemergence to Crop)

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VALOR can be used in combination with labeled burndown herbicides to control emerged weeds and provide residual weed control prior to crop emergence. Weeds controlled by residual activity are listed in Table 2.

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

### GENERAL 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 can be used at 1 to 2 oz./A with labeled burndown herbicides to enhance the speed of burndown and increase weed spectrum.
- A minimum of 21 days must pass, and 1 inch of rainfall/irrigation must occur, between VALOR application and planting of cotton.
- Refer to most restrictive label for minimum interval between application and planting.

**Table 1. Emerged Broadleaf Weeds Controlled by Hooded, Shielded and Layby Application of VALOR Tank Mixes With Glyphosate or MSMA in Cotton**

BROADLEAF WEED SPECIES		WEED HEIGHT (inches) 2 oz./A
COMMON NAME	SCIENTIFIC NAME	
Bindweed, Field <sup>1</sup>	<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
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
Purslanes, 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
Wild Mustard	<i>Brassica kaber</i>	6

<sup>1</sup> VALOR tank mixes will control the above-ground portion of field bindweed only.

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**Table 2. Broadleaf Weeds Controlled by Residual Activity of VALOR at 2 oz./A**

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

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**Table 3. Weeds Suppressed by Residual Activity of VALOR at 2 oz./A**

BROADLEAF WEED SPECIES		ORGANIC MATTER	OUNCES PER ACRE
COMMON NAME	SCIENTIFIC NAME		
Bristly Starbur	<i>Acanthospermum hispidum</i>	Up to 5%	2.0
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 pensylvanicum</i>		
Velvetleaf	<i>Abutilon theophrasti</i>		
GRASS WEED SPECIES			
Barnyardgrass	<i>Echinochloa crus-galli</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>		
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>		

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

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

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Manufactured for  
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