

59639-98

04/06/2004

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

APR 6 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 WP Herbicide
EPA Registration No. 59639-98
Your Submission Dated February 5, 2004

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

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:

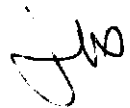
Under some conditions this product may have a potential to run-off to surface water or adjacent land. Where possible, use methods which reduce soil erosion, such as no till, limited till and contour plowing; these methods also reduce pesticide run-off. Use of vegetation filter strips along rivers, creeks,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

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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

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

Sincerely yours,



in 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 3025
Walnut Creek, CA 94596-8025

VALOR® WP Herbicide

EPA Reg. No. 59639-98

VALOR WP 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 WP provides residual control of susceptible weeds in cotton.
- VALOR WP can be applied as part of a fall burndown program for control of susceptible winter annuals.
- VALOR WP 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.

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

APR 6 2004

DIRECTIONS FOR USE IN COTTON

GENERAL RESTRICTIONS AND LIMITATIONS

- Do not apply more than 2 oz. of VALOR WP per acre during a single application.
- Do not apply more than 4 oz. of VALOR WP per acre during a single growing season.
- Do not make a sequential VALOR WP application within 30 days of the first VALOR WP application.
- Do not apply within 60 days of harvest.
- Post-directed and layby applications of VALOR WP 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 WP 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.
59639-98

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

Hooded, Shielded and Layby Application

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

VALOR WP 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 WP 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 WP are listed in Table 2. Weeds that are suppressed by residual activity of VALOR WP 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 WP 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 WP 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 WP 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 WP 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 WP applications. VALOR WP 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 WP tank mix applications must be made to weeds within the height range given in Table 1.

TANK MIXES

VALOR WP 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 WP 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

¹For 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)

VALOR WP 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 WP 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 WP 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 WP Tank Mixes With Glyphosate or MSMA in Cotton

BROADLEAF WEED SPECIES		WEED HEIGHT (inches) 2 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>integriscula</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

¹ VALOR WP tank mixes will control the above-ground portion of field bindweed only.

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

BROADLEAF WEED SPECIES				
COMMON NAME	SCIENTIFIC NAME	ORGANIC MATTER	SOIL TYPE	VALOR WP RATE
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>			
Herbit	<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>			

Table 3. Weeds Suppressed by Residual Activity of VALOR WP 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 pennsylvanicum</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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Made in U.S.A.

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