



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

MAR 14 1994

Diane L. Rosi  
HOECHST CELANESE CORP.  
C/O V A DOOR  
RT 202-206 BOX 2500  
SOMERVILLE, NJ 08876

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/30/93 in Response to PR Notice 93-7  
EPA Reg. No. 8340-23- *transferred to 45639-176*  
WHIP 1 EC HERBICIDE

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**SERIOUS ERROR(S) ON SUBMITTED LABELING:**

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

**YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING.** Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

**YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.**

10828



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contains at least 50% recycled fiber

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

**AND**

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director  
Compliance Division, (7203)  
Worker Protection Notification  
Office of Compliance Monitoring  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460

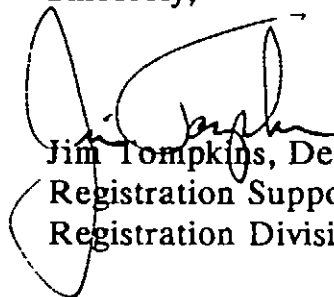
Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

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Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

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Revised ~~February 26, 1991~~  
August 27, 1993

[Container Label - 5 Pages]

# WHIP® 1EC HERBICIDE

FOR SELECTIVE POSTEMERGENCE ANNUAL AND PERENNIAL GRASS CONTROL IN RICE, SOYBEANS, COTTON, PEANUTS AND ACREAGE CONSERVATION RESERVE (SET-ASIDE)

## ACTIVE INGREDIENT:

fenoxaprop-ethyl: (+)-ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate..... 12.50%\*

INERT INGREDIENTS:..... 87.50%\*\*

TOTAL 100.00%

\* Equivalent to 1.00 pound of active ingredient per gallon.

\*\* This product contains the toxic inert ingredient dimethylformamide.

## KEEP OUT OF REACH OF CHILDREN

### WARNING AVISO

Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

EPA Reg. No. 8340-23

NET CONTENTS: 1 Gallon  
2.5 Gallons

## HOECHST CELANESE CORPORATION

Route 202-206  
P.O. Box 2500  
Somerville, NJ 08876-1258

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

MAR 14 1994  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
8340-23

45639 176

## PRECAUTIONARY STATEMENTS

### WARNING

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May cause substantial but temporary eye injury. Do not get in eyes. ~~Wear goggles or face shield and impermeable rubber gloves (such as neoprene or PVC) while mixing.~~ Harmful if swallowed, absorbed through skin or inhaled. Do not take internally. Avoid inhalation of vapor or spray mist. ~~Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.~~

#### Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

#### Applicators and other handlers must wear:

Long-sleeved shirt and long pants; chemical-resistant gloves, such as barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, or viton  $\geq$  14 mils; shoes plus socks; protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### Engineering control statement:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 pesticide is toxic to fish. Drift or runoff may adversely affect nontarget plants. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes) outside of a treated rice field. Do not contaminate water when disposing of equipment washwaters.

### ENDANGERED SPECIES RESTRICTIONS

The use of Whip 1EC Herbicide on rice is restricted to protect the endangered fat pocketbook pearly mussel (*Potamilus capax*) and its habitat. Use is prohibited in the following areas of Arkansas:

Mississippi County - Within the basin that drains directly into the Right Hand Chute of Little River, south of Big Lake National Wildlife Refuge.

Poinsett County - Between Crowley's Ridge and the levee east of the Right Hand Chute of Little River and the St. Francis Floodway. Use is also prohibited west of Route 140 and north of Route 63 at the siphon near Marked Tree. The prohibited area does not include the area bounded by Arkansas Highway 373 on the west, Highway 63 on the east, and Highway 14 on the south.

Cross, St. Francis and Lee Counties - Between Crowley's Ridge and the levee east of the Right Hand Chute of Little River and the St. Francis Floodway as far south as the confluence of L'Anquille River (Lee County).

**STORAGE AND DISPOSAL**

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

Do not store over 100°F or below 10°F. Do not use or store near heat or open flame.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Empty containers should be triple rinsed into the spray tank during the spray operation. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**STATEMENT OF PRACTICAL TREATMENT**

In case of eye contact, immediately flush with plenty of water for 15 minutes. Get medical attention. If swallowed, do not induce vomiting. Whip 1EC Herbicide contains petroleum distillates. Call a physician. Vomiting should be supervised by a physician because of the possible pulmonary damage via aspiration of the solvent.

If possible bring this container and labeling to the attending physician.

**EMERGENCY PHONE NUMBER**

For Human, Fire, Spill or Environmental Emergency:

Call **1-800-228-5635, Extension 132**



**IMPORTANT NOTICE: DISCLAIMER**

Read "IMPORTANT NOTICE: DISCLAIMER" before buying or using. If terms are not acceptable, return at once unopened. HOECHST CELANESE CORPORATION warrants only that the product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to HOECHST CELANESE CORPORATION, and user assumes the risk of any such use. HOECHST CELANESE CORPORATION MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY. In no case shall HOECHST CELANESE CORPORATION be liable for consequential, special, indirect or incidental damages resulting from the use or handling of this product. The foregoing conditions of sale and warranty can be varied only by an agreement in writing signed by a duly authorized representative of HOECHST CELANESE CORPORATION.

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Revised: ~~February 26, 1991~~  
~~August 27, 1993~~

[Attached Use Directions - 19 Pages]

**WHIP<sup>(R)</sup> 1EC HERBICIDE**

**IMPORTANT INSTRUCTIONS ENCLOSED**

**FOR THE SELECTIVE POSTEMERGENCE ANNUAL AND PERENNIAL GRASS  
CONTROL IN RICE, SOYBEANS, COTTON, PEANUTS AND ACREAGE  
CONSERVATION RESERVE (SET-ASIDE)**

**GENERAL INFORMATION**

Whip 1EC Herbicide is an emulsifiable concentrate for use in the selective postemergence control of annual and perennial grassy weeds in soybeans, rice, cotton and peanuts. Thorough spray coverage of emerged grasses is important. Visible effects begin as a general chlorosis (yellowing) followed by death of the weed. Visible injury of the grasses is evident approximately 4-10 days after application (dependent upon environmental conditions); but complete kill of the target grass will take 12-21 days.

Since many grass crops are sensitive to Whip 1EC Herbicide, including sorghum and corn, avoid all direct or indirect contact to neighboring fields.

Whip 1EC Herbicide does not control broadleaf weeds or sedges.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply until you have read the entire label. 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.

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**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 instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. 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 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls; chemical-resistant gloves, such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils or viton ≥ 14 mils; shoes plus socks; protective eyewear

**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 Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The Acreage Conservation Reserve (set-aside) is not within the scope of the WPS.

12.7.28

**SOYBEANS, COTTON AND PEANUTS**

**APPLICATION INFORMATION:**

- A. **Ground Application:** Broadcast - Refer to the Rate and Grass Recommendation Chart for proper application rates. Whip 1EC Herbicide should be applied in a minimum of ten (10) gallons of water per broadcast acre. Flat fan or hollow cone nozzles are recommended. Use a minimum pressure of forty (40) pounds per square inch. Under dense weed/crop canopies, high spray pressure is very important for obtaining thorough coverage; therefore, use higher spray pressure under these conditions. Spot Treatment - Whip 1EC Herbicide may be applied for the control of grasses through knapsack sprayers or high-volume equipment utilizing handguns or other suitable nozzle arrangements in a 1% v/v solution with water (e.g., 32 fluid ounces per 25 gallons of water). Apply to actively growing grasses. Apply to the foliage of grasses on a spray-to-wet basis. DO NOT spray to the point of runoff. The spray gallonage should not exceed 25 gallons per acre. Spray coverage should be uniform and complete.
- B. **Air Application:** For Soybeans Only -- Whip 1EC Herbicide should be applied in a minimum of five (5) gallons of water per broadcast acre. Uniform spray coverage is essential when using aircraft, and is achieved by the use of spray droplet size (150-300 micron range). DO NOT USE raindrop nozzles. Aerial applications with this product should be made at a height which provide the most effective swath width for the aircraft and yet provide the recommended rates given on this label and uniform application.

DO NOT APPLY by aircraft when wind speeds exceed eight (8) mph. Avoid all direct or indirect contact to neighboring fields.

**TIMING OF APPLICATION:**

Whip 1EC Herbicide will control grasses at most growth stages; but for optimum grass control, applications should be made to young, vigorously growing grassy weeds. Follow the recommendations for time of application listed on the rate/grass recommendation chart below. Earlier applications of Whip 1EC Herbicide (before all grasses have emerged) could result in late flushes of grass reinfesting the treated area.

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RATE AND GRASS RECOMMENDATION CHART

Grass Species	Optimum Stage of Growth*	Crop Oil Concentrate	Application Rate**	
			Fl. pts./A	Oz./A
<u>ANNUAL GRASSES</u>				
Giant Foxtail ( <u>Setaria faberii</u> )	3-6"	Always add 1 qt.	0.8	13
Green Foxtail ( <u>Setaria viridis</u> )	3-6"	with ground 1 pt.		
Volunteer Corn ( <u>Zea mays</u> )	10-24"	with aerial application		
Wild Proso Millet ( <u>Panicum miliaceum</u> )	5-10"			
Johnsongrass, Seedling ( <u>Sorghum halepense</u> )	4-10"			
Wild Cane/Shattercane ( <u>Sorghum bicolor</u> )	6-12"			
Barnyardgrass ( <u>Echinochloa crusgalli</u> )				
Fall Panicum ( <u>Panicum dichotomiflorum</u> )				
Bristle Foxtail ( <u>Setaria verticillata</u> )				
Purple Foxtail ( <u>Setaria viridis</u> ( <u>robusta purpurea</u> )				
Robust Foxtail ( <u>Setaria viridis</u> ( <u>robusta alba</u> )				
Jungle Rice ( <u>Echinochloa colonum</u> )	3-6"	OPTIONAL	1.2	19
Southwestern Cupgrass ( <u>Eriochloa gracilis</u> )				
Sprangletop ( <u>Leptochloa filiformis</u> )				
Wild oats ( <u>Avena fatua</u> )				
Witchgrass ( <u>Panicum capillare</u> )				
Wooly Cupgrass ( <u>Eriochlea villosa</u> )				

Grass Species	Optimum Stage of Growth*	Crop Oil Concentrate	Application Rate**	
			Fl. pts./A	Oz./A
Firestem muhly <u>(Luhlenbergia frondosa)</u> Yellow Foxtail <u>(Setaria lutescens)</u> Roadleaf Signalgrass <u>(Brachiaria platyphylla)</u> Goosegrass <u>(Eleusine indica)</u> Texas panicum <u>(Panicum texanum)</u>	3-6"	Always add COC	1.2	19
Large Crabgrass <u>(Digitaria sanguinalis)</u> Smooth Crabgrass <u>(Digitaria ischaemum)</u>	1-2"	Always add COC	1.2	19
Couchgrass <u>(Rottboellia exaltata)</u>	3-6"	Optional	1.2	19

#### PERENNIAL GRASSES

Johnsongrass from rhizomes <u>(Sorghum halepense)</u>	10-20"	DO NOT ADD OIL	1.2	19
Second application if seeded (regrowth) A timely cultivation may override necessity of a second application.)	10-20"		0.8	13

\*See control of larger annual grasses.

\*When controlling mixed populations of grassy weeds, always use the rate that will control the least susceptible species.

### CONTROL OF LARGER ANNUAL GRASSES

In soybeans, cotton and peanuts, always use crop oil concentrate when controlling annual grasses that have grown beyond the optimum growth stage for control. When grasses are large, the control may take somewhat longer.

### ADDITIVES

The addition of nonphytotoxic oil concentrate to the spray solution at one (1) quart per acre for ground applications and one (1) pint per acre for aerial applications, or a non-ionic surfactant at 1/4-1/2% by volume to the spray solution may improve the herbicidal activity of Whip 1EC Herbicide. A nonphytotoxic oil should be added when the grassy weeds are under drought stress or when a less than optimum application timing is necessary (see Timing of Application Section). Add a nonphytotoxic oil concentrate or a once-refined vegetable oil or soybean oil concentrate containing 15-20% approved emulsifiers. Crop oil concentrates vary in their viscosity; therefore, it is important to maintain constant agitation while the spray mixture is in the spray tank.

The increased speed of foliage burn resulting from the addition of crop oil concentrate may reduce the translocation of Whip 1EC Herbicide to the Johnsongrass roots and rhizomes. Therefore, the addition of nonphytotoxic oil is not recommended for the control of rhizome Johnsongrass.

### TANK MIX RECOMMENDATIONS FOR SOYBEANS AND PEANUTS

Whip 1EC Herbicide may be tank mixed with Basagran Herbicide in a postemergence program for broad spectrum weed control in soybeans and peanuts. Whip 1EC Herbicide may also be tank mixed with Blazer or Tackle 2AS in soybeans only. Tank mix applications are to be used only when both the annual grass and broadleaf weeds are in the proper stage of growth as specified on each respective herbicide label. When tank mixing, always follow the use directions in accordance with the respective label. No label dosage rates should be exceeded.

**Water Volume and Spray Pressure**

**Ground Equipment:** For the tank mix, use a minimum of 20 gallons per acre of total spray solution and a minimum pressure of 40 PSI. Use standard high pressure hollow cone or flat-fan nozzles. Do not use flood nozzles.

**Aerial Equipment:** For tank mixes, use a minimum of 5 gallons per acre of total spray solution and a minimum pressure of 40 PSI.

**Mixing:** Fill the spray tank half full with water while the agitator is running. Add the recommended amount of Whip 1EC Herbicide followed by the tank mix component. Then add the remaining amount of water.

**Tank Mix with Basagran<sup>R</sup>**

Whip 1EC Herbicide should be applied at a rate of 1.2 to 1.6 pints per acre and Basagran at a rate of 1.5 to 2.0 pints per acre. The choice of rates of each product and additives is dependent on the weed size and weed spectrum present. Refer to the Basagran label to identify the proper rate and additives for control of the species and size of the broadleaf weeds present.

The Whip 1EC Herbicide rates for tank mixing with Basagran are 1.2 pints per acre when the annual grassy weeds are 1 to 4 inches tall, and 1.6 pints per acre when the annual grassy weeds are 4 to 6 inches tall or less than 2 tillers. DO NOT use this tank mix if the annual grassy weeds have developed more than 2 tillers or are larger than 6 inches tall. For the control of shattercane 6 to 12 inches tall and broadleaf weeds that are on the Basagran label, tank mix Whip 1EC Herbicide at a rate of 1.2 pints per acre with Basagran at 1.5 to 2.0 pints per acre. DO NOT use this tank mix to control rhizome Johnsongrass. Sequential applications of Whip 1EC Herbicide and Basagran may be necessary if the stages of the grass and broadleaf weeds are not within tank mix label recommendations at the same time.

**For Use On Soybeans and Peanuts Only:** When tank mixing Whip 1EC Herbicide and Basagran, always add crop oil concentrate or other labeled additives at the appropriate labeled rate.

**Special Note:** When tank mixing Basagran and Whip 1EC Herbicide, a minimum rate of Whip at 1.2 pints per acre is recommended.



**Tank Mix with Blazer<sup>R</sup> or Tackle 2AS**

Whip 1EC Herbicide should be tank mixed at a rate of 1.6 pints per acre. Blazer or Tackle 2AS should be tank mixed at a rate of 1.5 to 2.0 pints per acre. In no instances should crop oil concentrate or a surfactant be used with this tank mix. This tank mix should not be used for the control of rhizome Johnsongrass.

**Tank Mix with Blazer<sup>R</sup> or Tackle 2AS (continued)**

The stage of growth of both the annual grassy weeds and the broadleaf weeds should conform to the directions on each product label. The tank mix of Whip 1EC Herbicide plus Blazer or Tackle 2AS should not be applied after the annual grasses have begun tillering. Whenever the grass and broadleaf weeds are not both in the proper stage of growth according to this tank mix label, a sequential application should be utilized. When Whip 1EC Herbicide is applied first, a waiting period of 3 days is necessary before applying Blazer or Tackle 2AS. When Blazer or Tackle 2AS is applied first, a waiting period of 7 days is necessary before applying Whip 1EC Herbicide.

Special Note: The mixture of Whip 1EC Herbicide plus Blazer or Tackle 2AS may only suppress velvetleaf.

**Tank Mix with Reflex<sup>R</sup> 2LC Herbicide (Soybeans Only)****METHOD 1****Tank Mix Application****Whip 1EC Herbicide and Reflex 2LC Herbicide**

(Annual grasses and broadleaf weeds are at the proper stage of growth for treatment as per the respective labels.)

A tank mix of Whip 1EC Herbicide and Reflex 2LC Herbicide may be applied at the recommended rates and growth stages to susceptible annual grass and broadleaf weed species in a manner consistent with respective labels. Whip 1EC Herbicide should be applied at a rate of 1.2 - 1.6 pints per acre and Reflex 2LC Herbicide at 1.0 - 1.5 pints per acre. The choice of rates for Whip 1EC Herbicide is dependent on the weed size and weed spectrum present. The Whip 1EC Herbicide rate for tank mixing with Reflex 2LC Herbicide is 1.2 pints per acre when annual grassy weeds are 1-4 inches tall, and 1.6 pints per acre when annual grassy weeds are 4-6 inches tall or less than 2 tillers. For the control of shattercane 6-12 inches tall, tank mix Whip 1EC Herbicide at a rate of 1.2 pints per acre with Reflex 2LC Herbicide. The choice of rates for Reflex 2LC Herbicide is dependent on the weed size, weed spectrum and geographical locations. Refer to the Reflex 2LC Herbicide label for specific rates, geographical restrictions, and for a list of weeds controlled.

Use crop oil concentrate in the tank mix at 1% v/v (1 quart per 25 gallons of spray solution).

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**Tank Mix with Reflex<sup>R</sup> 2LC Herbicide (Soybeans Only) (continued)**

- \* DO NOT use this tank mix if perennial grasses such as rhizome Johnsongrass are the predominant grass species to be controlled.
- \* DO NOT use this tank mix if the annual grassy weeds have developed more than 2 tillers or are larger than 6 inches tall. This tank mix may result in reduced annual grass control.

**METHOD 2**

**Sequential Application**

**Whip 1EC Herbicide followed by Reflex 2LC Herbicide**

(Annual and/or perennial grass weeds are at the proper growth stage for treatment, prior to broadleaf weed treatment.)

Apply Whip 1EC Herbicide to annual and/or perennial grass weeds at the recommended rate and growth stage listed on this label.

When treating annual grass weeds, allow at least 3 days, and when treating perennial grass weeds allow at least 5 days to elapse prior to a Reflex 2LC Herbicide application. After the appropriate time interval has elapsed, apply Reflex 2LC Herbicide with an approved adjuvant to actively growing weeds at the recommended rate and growth stage. Refer to the Reflex label for specific rates, geographical restrictions, and for a list of weeds controlled.

**METHOD 3**

**Sequential Application**

**Reflex 2LC Herbicide followed by Whip 1EC Herbicide**

(Broadleaf weeds are at the proper growth stage for treatment, prior to annual and/or perennial grass weed treatment.)

Apply Reflex 2LC Herbicide with an approved adjuvant to susceptible broadleaf weeds at the recommended rate and growth stage listed on the Reflex 2LC Herbicide label. Refer to the Reflex 2LC Herbicide label for specific rates, geographical restrictions, and for a list of weeds controlled.

A sequential application of Whip 1EC Herbicide may be made following a Reflex 2LC Herbicide application when annual or perennial grass weeds resume active growth indicated by the development of a new leaf. Follow the recommended rates and growth stages listed on the Whip 1EC Herbicide label.

**SPECIAL NOTE:** Tank mix applications can result in increases in crop injury as compared to either product used alone.

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**Tank Mix with Pinnacle<sup>R</sup> Herbicide (Soybeans Only)**

Whip 1EC Herbicide may be tank mixed with Pinnacle Herbicide for broad spectrum weed control. The application rate for Pinnacle Herbicide is 0.25 ounce per acre. Refer to the rate chart below for the Whip 1EC Herbicide use rates. This tank mix application should be made to grasses in the 2-leaf to 2-tiller stage of growth. Sequential applications may be necessary if the stages of growth of the grass and broadleaf weeds are not within the recommended timing of application. It is recommended that a non-ionic surfactant at a rate of 0.125-0.250% v/v be added to this tank mix. DO NOT add crop oil concentrate. Refer to the Pinnacle Herbicide label for additional information.

<u>Species</u>	<u>Whip 1EC Herbicide Rates (Pints/A) When Tank Mixed With Pinnacle (0.25 oz.)</u>
Giant Foxtail	1.0 pt.
Volunteer Corn	1.0
Seedling Johnsongrass	1.0
Green Foxtail	1.0
Wild Proso Millet	1.2
Shattercane	1.2
Barnyardgrass	1.2
Wooly Cupgrass	1.2
Yellow Foxtail	1.2

**Tank Mix with Pinnacle Herbicide Plus Classic<sup>R</sup> Herbicide (Soybeans Only)**

Whip 1EC Herbicide may be tank mixed with Pinnacle Herbicide plus Classic Herbicide for broad spectrum weed control. The application rate for Pinnacle Herbicide is 0.25 ounce per acre plus Classic Herbicide at 0.25 ounce per acre. Refer to the rate chart below for the Whip 1EC Herbicide use rates. This tank mix application should be made to grasses in the 2-leaf to 2-tiller stage of growth. Sequential applications may be necessary if the stages of growth of the grass and broadleaf weeds are not within the recommended timing of application. Refer to the Pinnacle Herbicide and Classic Herbicide labels for additional information.

<u>Species</u>	<u>Whip 1EC Herbicide Rates (Pints/A) When Tank Mixed With Pinnacle plus Classic (0.25 + 0.25 oz.)</u>
Giant Foxtail	1.2 pt.
Volunteer Corn	1.2
Seedling Johnsongrass	1.2
Green Foxtail	1.2
Wild Proso Millet	1.4
Shattercane	1.4
Barnyardgrass	1.6
Wooly Cupgrass	1.6
Yellow Foxtail	1.6

### Tank Mix with Fusilade<sup>R</sup> 2000 Herbicide

For improved control of Johnsongrass and/or annual grass, Whip 1EC Herbicide may be tank mixed with Fusilade 2000 Herbicide. When rhizome Johnsongrass is the predominant grassy weed, Whip 1EC Herbicide should be applied at a rate of 11.5 fl.oz. per acre and Fusilade at 12.0 fl.oz. per acre. When annual grasses are the predominant grassy weeds, Whip 1EC Herbicide should be applied at a rate of 11.0 fl.oz. per acre and Fusilade 2000 at 9.6 fl.oz. per acre. Tank mix applications are to be used only if both annual grass and rhizome Johnsongrass are at the proper stage of growth as specified on each respective label.

For all ground applications, use crop oil concentrate in the tank mix at 1% v/v (1 quart per 25 gallons of spray solution). For aerial applications, use crop oil concentrate at 1 pint per acre.

The tank mix of Whip 1EC Herbicide plus Fusilade 2000 Herbicide may be applied in combination with Reflex 2LC, Basagran, or Blazer herbicides as described on this and the Fusilade 2000 Herbicide labels. If there are any differences in labeling, the most restrictive labeling applies. DO NOT tank mix with Reflex 2LC, Basagran, or Blazer when rhizome Johnsongrass is the predominant grassy weed problem.

### SPECIAL NOTES FOR SOYBEANS, COTTON AND PEANUTS

1. Annual ryegrass (Lolium sp.), quackgrass (Agropyron repens) and Bermudagrass (Cynodon dactylon) are not controlled by Whip 1EC Herbicide.
2. Rainfall within one hour of an application may cause a reduction in grass control.
3. If a new flush of grass occurs, either a timely cultivation or a second application of Whip 1EC Herbicide may be necessary. In soybeans and peanuts, DO NOT make more than two applications of Whip 1EC Herbicide per growing season and DO NOT apply more than 2 pints (0.25 lbs. ai) per acre per growing season. In cotton, DO NOT make more than 3 applications of Whip 1EC Herbicide per growing season and DO NOT apply more than 2.8 pints (0.35 lbs. ai) per acre per growing season.
4. DO NOT cultivate within four days before or after a Whip 1EC Herbicide application.
5. ALWAYS, clean sprayer thoroughly before and after any pesticide application.
6. As a spot treatment, apply Whip 1EC Herbicide in a 1% v/v solution with water (e.g., 32 fluid ounces per 25 gallons of water). (See instructions for use in the Ground Application Section.)

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7. Whip 1EC Herbicide is not phytotoxic to soybeans, cotton or peanuts at any growth stage. But for best results, it should be applied according to the development of the annual grassy weeds as noted, but before the bloom stage of soybeans and cotton, and prior to peg initiation of peanuts.
8. DO NOT graze or feed treated forage, hay, straw, or vines.
9. Application of Whip 1EC Herbicide to grasses under stress (e.g., drought), may result in reduced control.
10. DO NOT plant any rotational crop in a Whip 1EC Herbicide treated field for 30 days after application (120 days for small grains).
11. DO NOT apply Whip 1EC Herbicide less than 90 days before harvesting soybeans, 60 days before harvesting peanuts, and 40 days before harvesting cotton.
12. DO NOT apply this product through any irrigation system.
13. The application of any pesticide (other than those listed on this label) made within 7 days of the Whip 1EC Herbicide application causing stress to the target grass may reduce the effectiveness of the Whip application.
14. Read and follow restrictions and limitations on the Basagran Herbicide, Reflex 2LC Herbicide, Blazer/Tackle, Pinnacle Herbicide, Classic Herbicide, and Fusilade 2000 Herbicide labels as applicable. The most restrictive labeling applies in tank mixes.

#### RICE

Rice is tolerant to postemergence applications of Whip 1EC Herbicide from the 4-leaf to the late tillering stage of rice development. Always plant high quality seed in order to obtain a uniform germination and a good rice stand. Postemergence applications may result in temporary rice injury that appears as leaf chlorosis and stunting. The rice will normally recover from these symptoms in two to four weeks.

Use instructions, particularly water management, must be followed to minimize rice injury. Read and follow all label directions carefully.

#### **APPLICATION INFORMATION:**

Rice fields should be level and free of large clods to obtain uniform germination of rice and grassy weeds and to insure uniform flood levels. If necessary, fields may be flushed prior to treatment. If fields are flushed prior to treatment, flush in sufficient time so that the rice and grass are actively growing at time of treatment. Allow sufficient time for water to drain from the paddy before the Whip 1EC Herbicide application.

ice injury may occur if applications of Whip 1EC Herbicide are made within three (3) days following periods of inclement (rainy, foggy, cloudy) weather.

do not apply Whip 1EC Herbicide within 14 days following the activation of fertilizer.

- . **Air Application:** Apply aurally using a minimum of ten (10) gallons of water per broadcast acre. It is recommended to increase the gallonage to obtain thorough coverage when a dense weed canopy is present. Uniform spray coverage is essential when using aircraft, and is achieved by the use of a spray droplet size ranging from 150 to 300 microns. A hydraulic boom-nozzle system that will apply 10 gallons of water per acre with a minimum pressure of 20 pounds per square inch is recommended. Best results are obtained with D-8 nozzles. DO NOT USE raindrop nozzles. Aerial applications with this product should be made at a height which provide the most effective swath width for the aircraft and yet provide the recommended rates given on this label and uniform application.

DO NOT APPLY by aircraft when wind speeds exceed eight (8) mph. Avoid all direct or indirect contact to neighboring fields.

**Special Notes:**

1. Thoroughly clean mixing vat and airplane by rinsing with clean water before Whip 1EC Herbicide is added.
  2. It is important to calibrate the spray equipment with Whip 1EC Herbicide in the spray solution. The spray swath width and total volume per acre may vary when compared to other rice herbicides.
  3. A flow meter is recommended to obtain proper water volume (gpa).
4. **Ground Application:** Apply in a minimum of ten (10) gallons of water per broadcast acre. Flat fan or hollow cone nozzles are recommended. Use a minimum pressure of 40 PSI. Under dense weed/crop canopies, high spray pressure and increased gallonage is very important in obtaining thorough coverage.

While broadleaf crops, such as cotton and soybeans, are very tolerant to Whip 1EC Herbicide, grassy crops, such as corn and sorghum, are extremely sensitive and drift onto these grassy crops must be avoided. To insure thorough coverage and to avoid drift, DO NOT APPLY when the wind speed exceeds eight (8) mph.

## Timing of Application:

For Arkansas, Louisiana, Mississippi, Missouri, and Texas.

When recommended water management practices are followed (see Water Management Section), optimal conditions for controlling grass usually occur when the rice is in the 4-leaf to late tillering stage of development (but prior to panicle initiation). However, applications should be made following the Rate and Grass Recommendation Chart for Rice below.

Rate and Grass Recommendation Chart for Rice

Grass Species	Amount of Whip per acre (pints) Relative to Stage of Annual Grass Weeds		> 2 Tiller or >10 Inches
	1-5 leaf or 1-5 inches	5 leaf - 2 Tiller or 5-10 inches	
Sprangletop ( <u>Leptochloa</u> spp.)			1.2 to 1.6 pts./A
Barnyardgrass, watergrass ( <u>Echinochloa crusgalli</u> )			S
Broadleaf Signalgrass ( <u>Brachiaria platyphylla</u> )			U
Goosegrass ( <u>Eleusine indica</u> )	1.2 pts./A	1.6 pts./A	P
Jungle rice ( <u>Echinochloa colonum</u> )			P
Crabgrass ( <u>Digitaria</u> spp.)			R
Johnsongrass (10-15") ( <u>Sorghum halepense</u> )			E
Giant Foxtail ( <u>Setaria faberi</u> )			S
Fall Panicum ( <u>Panicum dichotomiflorum</u> )			S
Red Rice*	1.2 pts./A (3 leaf)		I
( <u>Oryza sativa</u> )	1.6 pts./A (4 leaf)		O
			N
		NOT RECOMMENDED	

\*For suppression of red rice, apply Whip 1EC Herbicide at 1.2-1.6 pints/A when the red rice is in the 4-leaf stage of growth.

**Early Season Applications in Texas**

For early season applications when the daily minimum temperatures are below 60°F for 3 consecutive days, tank mix Whip 1EC Herbicide at 0.9 pint per acre with Basagran Herbicide at 1.5 pints per acre. For this early season tank mix application, the annual grassy weeds should be actively growing and should be no larger than the 4-leaf stage of growth.

**WATER MANAGEMENT - IMPORTANT INSTRUCTIONS**

The following paddy flood program must be used:

**PREFLOOD:**

1. Rice fields must be level. If desirable, fields may be flushed prior to treatment. To expose existing grasses, allow sufficient time for water to drain from the field before the Whip 1EC Herbicide application.
2. When to Apply the Paddy Flood:
  - a. When the rice is less than eight (8) inches in height, do not flood fields for at least seven (7) days after the Whip 1EC Herbicide application.
  - b. When the rice is greater than eight (8) inches in height, the fields can be flooded in 4 - 5 days following the application.
3. The water depth (flush or flood) should not exceed 25% of the rice height for 21 days after the Whip 1EC Herbicide application. A deep flood can be applied anytime after 21 days following treatment.

**POST-FLOOD:**

1. The rice should have at least one tiller before making a post-flood application with Whip 1EC Herbicide.
2. Water levels at the time of application should cover no more than 25% of the rice and annual grass foliage.
3. Reflood to a normal depth two to three days after the application.
4. Whip 1EC Herbicide may only provide suppression of annual grassy weeds having developed beyond the 2-tiller stage of growth.



## **CONTROL OF OTHER WEEDS:**

### **Tank Mix Recommendations for Rice:**

Sequential applications may be necessary if the growth stage of the grasses and broadleaf weeds are not within the tank mix label recommendations at the same time. When making sequential applications of rice herbicides other than Basagran, Bolero, or Prowl, wait 6 days before or after the application of Whip 1EC Herbicide.

In pre-flood applications, a new flush of broadleaf and grassy weeds may occur under certain environmental conditions before the field receives permanent flood five to seven (5-7) days later; therefore, additional herbicide applications may be required. DO NOT make a second application of Whip 1EC Herbicide within 14 days of the first application.

### **Tank Mix with Basagran**

The Whip 1EC Herbicide rates for tank mixes with Basagran are 1.2 pints per acre, when the annual grassy weeds are 1 to 3 leaf (1 - 4 inches) and 1.6 pints per acre when the annual grassy weeds are 4 leaf to 1 tiller (4 - 8 inches). Do not tank mix Whip 1EC Herbicide and Basagran when the annual grassy weeds have developed more than 1 tiller or if the weeds are under drought stress. Sequential applications may be necessary if the growth stage of the grasses and broadleaf weeds are not within the tank mix label recommendations at the same time.

### **Tank Mix with Bolero**

A tank mix of Whip 1EC Herbicide and Bolero Herbicide can be used for the control of annual grass and aquatic weed species. Apply 1.2 pints/acre (0.15 lb. ai/A) of Whip 1EC Herbicide plus 2-3 pints/acre (2.0-3.0 lbs. ai/A) of Bolero. Do not apply this tank mixture when annual grassy weeds have developed more than one (1) tiller or if the weeds are drought stressed. Do not apply to stressed rice.

### **Tank Mix with Prowl**

Use a tank mix of Whip 1EC Herbicide and Prowl 4E Herbicide for postemergence and residual control of annual grass species listed on the Whip 1EC Herbicide label. Apply 1.2-1.6 pints/acre (0.15-0.20 lb. ai/A) of Whip 1EC Herbicide plus 1.5-2.0 pints/acre (0.75-1.0 lb. ai/A) of Prowl 4E Herbicide. Do not apply this tank mixture when annual grassy weeds have developed more than one (1) tiller or if the weeds are drought stressed.

**MIXING INSTRUCTIONS:**

Fill the spray tank half full with water while the agitator is running. Add the recommended amount of Whip 1EC Herbicide followed by the appropriate amount of the tank mix component. Then add the remaining amount of water.

**SPECIAL NOTES FOR RICE:**

1. DO NOT add a crop oil concentrate to the spray solution when treating rice as rice injury may occur.
2. Rainfall within one hour of an application may reduce the grass control.
3. DO NOT make more than two applications of Whip 1EC Herbicide per growing season. Do not make a second application of Whip 1EC Herbicide within 14 days of the first application. Do not apply more than 2.4 pints per acre per growing season.
4. DO NOT apply Whip 1EC Herbicide after the late tillering stage of the rice crop development (but prior to panicle initiation).
5. ALWAYS clean spray system thoroughly before and after any pesticide application. Avoid using any water that is contaminated with other pesticides.
6. DO NOT graze or feed rice straw to livestock.
7. DO NOT plant any rotational crop in a Whip 1EC Herbicide treated field for 30 days after application (120 days for small grains).
8. DO NOT apply Whip 1EC Herbicide in areas where catfish and crayfish are commercially cultivated.
9. DO NOT use rice irrigation water to irrigate crops not registered for use with Whip 1EC Herbicide within 14 days of the last application of this product.
10. DO NOT apply Whip 1EC Herbicide less than 65 days before harvesting rice.

11. DO NOT apply Whip 1EC Herbicide for at least 14 days following the activation of fertilizer.
12. Applications of Whip 1EC Herbicide to grasses under drought stress may result in reduced control.
13. DO NOT tank mix Whip 1EC Herbicide with Blazer, Propanil, Ordram, phenoxy herbicides, or liquid fertilizers.
14. DO NOT apply Whip 1EC Herbicide within seven (7) days following a Furadan application.
15. Whip 1EC Herbicide can be applied to the following rice varieties: Newbonnet, Lemont, Skybonnet, Tebonnet, Bond, Gulfmont, Rexmont, Labelle, Starbonnet, L-201, Newrex, and CB-801.
16. DO NOT use on the rice varieties Leah, Mars, Mercury, Texmati, and Toro 2, as damage to these varieties may occur.

#### ACREAGE CONSERVATION RESERVE (SET-ASIDE)

Whip 1EC Herbicide may be used to control annual grassy weeds in acreage conservation reserve (set-aside) acres. This acreage is often seeded to the following cover crops: clover, alfalfa, tall fescue, bromegrass, and ryegrass. Special note: Timothy and orchardgrass are sensitive to Whip 1EC Herbicide. The cover crops listed above have excellent tolerance to Whip 1EC Herbicide at 1.2 to 1.6 pints per acre. Select the proper rate from the Rate and Grass Recommendation Chart found in the Soybean Section of this label.

#### SPECIAL NOTES:

1. DO NOT harvest or graze cover crops treated with Whip 1EC Herbicide.
  2. DO NOT apply to cover crops such as oats, sorghum, sudangrass, and Timothy as injury may occur.
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Blazer<sup>R</sup> is a registered trademark of BASF Corporation.

Classic<sup>R</sup> is a registered trademark of E.I. duPont de Nemours & Co., Inc.

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