

13235

JAN 23 1985

Barbara Kaminski
ICI America:
Agricultural Chemicals Division
Concord Pike and New Murphy Road
Wilmington, DE 19897

Dear Ms. Kaminski:

Subject: Amendment: Add ^{grass} Witchweed
FF005 1E Herbicide
EPA Registration No. 10182-88
Your Submission of January 16, 1985

The amendment referred to above, submitted in connection with registration under FIFRA 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 phrase, "EPA Registration No. 10182-88."
 - b. Add the statement, "May cause allergic skin reactions."
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.

Sincerely yours,

Richard F. Mountfort *Rfm*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (78-767)

Enclosure

RD/FHB:JOB:89227:Mountfort:RD-36:eg;Kendrick:898-1270:1/18/85;Del.1/27/85

CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

PP005™ 1E Herbicide

Witchgrass added to pages 7, 14, and page 6 of the noncrop supplemental label.

with comments
JAN 23 1985
10182-08

02/25

CENTER PANEL

PP005™ 1E Herbicide

POSTEMERGENCE HERBICIDE
FOR CONTROL OF PERENNIAL AND ANNUAL GRASS WEEDS

ACTIVE INGREDIENT:

butyl(R)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]	
propanoate*.....	13
INERT INGREDIENTS.....	87
*fluazifop-P-butyl	
	TOTAL..... 100%

PP005 1E contains 1 pound (+) isomer (fluazifop-P-butyl) per gallon

KEEP OUT OF REACH OF CHILDREN

DANGER

See Side Panel for Additional Precautionary Statements and Statement of Practical Treatment

ICI Americas Inc.
Agricultural Chemicals Division
Wilmington, Delaware 19897

EPA Est. No. 10182-NC-01

EPA Reg. No. 10182-68

Net Contents:

Batch No.:

060484mah03

LEFT PANEL

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMAN AND DOMESTIC ANIMALS
DANGER

Corrosive causes eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Wear protective clothing and PVC gloves when spraying. Wear protective clothing, PVC gloves and apron and full face shield when handling or mixing concentrate. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

May cause allergic skin reaction

STATEMENT OF PRACTICAL TREATMENT:

IF SWALLOWED: Do not induce vomiting. Call a physician immediately.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN: Immediately remove contaminated clothing and wash thoroughly with plenty of soap and water. Get medical attention.

NOTE TO PHYSICIAN: Inducing vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision.

For 24-hour emergency assistance call 302/575-3000.

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of waste. Do not apply when weather conditions favor drift from target area.

In case of a significant spill, call CHEMTEC 800/424-9300.

PHYSICAL AND CHEMICAL HAZARDS: Do not use or store near heat or open flame.

STORAGE AND DISPOSAL:

Prohibitions: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Storage: Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

Pesticide Disposal: Pesticide wastes are acutely hazardous. 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:

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic Containers: Triple rinse (or equivalent). 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.

Glass Containers: Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

NOTICE TO BUYER AND USER: Seller warrants that this product conforms to the chemical description of the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller and Buyer and User assumes the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

RIGHT PANEL

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

REFER TO SUPPLEMENTAL LABEL FOR DIRECTIONS FOR USE.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

060484mah03

7-5

PP005 1E
DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of application.

General Information

PP005 1E is a selective postemergence herbicide for control of annual and perennial grass weeds in cotton and soybeans. PP005 1E will provide effective control of grass weeds in conventional tillage, minimum tillage, and no-till plantings. PP005 1E does not control broadleaf weeds or sedges (nutgrass).

Control Symptoms

PP005 1E is a systemic herbicide which moves from the treated foliage into the rhizomes, stolons and growing points (meristematic regions) of treated grass weeds. Excellent control of a wide range of annual and perennial grass weeds will be obtained with PP005 1E when applied as recommended on this label.

Growth of treated grass weeds stops soon after application. Symptoms include loss of vigor, yellowing and/or reddening, and necrosis. Symptoms are generally observed within one to three weeks, depending on the grass weed species and environmental conditions.

COTTON

APPLICATION DIRECTIONS

For all states except the irrigated areas of Arizona, California, New Mexico, West Oklahoma and West Texas, consult the use directions for Region A - Areas with adequate rainfall for crop production. For areas of low rainfall and low relative humidity, consult the use directions for Region B - Irrigated areas of Arizona, California, New Mexico, West Oklahoma and West Texas.

Timing

Apply to actively growing grass weeds before they exceed the recommended growth stages shown on this label.

Spray Additives (Cleared for use on growing crops)

ALWAYS ADD ONE OF THE FOLLOWING:

Crop Oil Concentrate

Add crop oil concentrate at 1% (1 quart per 25 gallons) of the finished spray volume. Use only nonphytotoxic crop oil concentrates that contain 15-20% surfactant.

OR

Nonionic Surfactant

Add nonionic surfactant at 0.25% (1/2 pint per 25 gallons) of the finished spray volume. Use only nonionic surfactants that contain at least 75% surface active agent. Symptoms often develop faster when crop oil concentrate is used than when nonionic surfactant is used, but there will be little, if any, difference in final control.

Ground Application

Use sufficient spray volume and pressure to ensure complete coverage. With ground equipment, use a minimum of 5 gallons per acre and 30-60 psi pressure. Use 60 psi if grass foliage is dense.

DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLE TIPS
WHICH DELIVER COARSE SPRAYS

Aerial Application

Use a minimum of 5 gallons per acre for aerial application.

Cultivation

Cultivation of perennial grasses from 7 days prior until 3 days after application of PP005 1E may reduce control due to 1) destruction of grass foliage which otherwise would adsorb and translocate PP005 1E into rhizomes and stolons; 2) inducing a stress on grass remaining in the uncultivated part of the field, thereby reducing uptake and translocation of PP005 1E. However, cultivation no sooner than 3 days after application will often assist in grass control.

Cultivation of annual grasses from 7 days prior until 7 days after application of PP005 1E may reduce control due to 1) inducing a stress on grass remaining in the uncultivated part of the field, thereby reducing uptake and translocation of PP005 1E; 2) physical covering of small seedlings with soil which prevents foliage contact by the spray. However, cultivation not sooner than 7 days following application will often assist in grass control.

Band Applications

When making band applications, equipment should be adjusted to provide maximum coverage of grasses in the row (drill). Thorough coverage can be obtained with a nozzle directed to each side of the row toward the grass in the row. Application with a single nozzle over the top of the row is not recommended. The use of band applications on perennial grasses may result in reinfestation of the treated band from the untreated middle.

PERENNIAL GRASS CONTROL

For best results, rhizomes or stolons must be cut up by preplant tillage (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Because rhizomes and stolons are not cut up by preplant tillage in no-till and reduced tillage plantings, a second application is recommended for season-long control. Apply PP005 1E to actively growing grasses.

Two applications of PP005 1E are generally more effective for full season control than a single application of the same total amount.

REGION A - AREAS WITH ADEQUATE RAINFALL FOR CROP PRODUCTION.
(For all states except the irrigated areas of Arizona, California, New Mexico, West Oklahoma and West Texas.

Apply PP005 1E to actively growing grasses. ✓

Always add either crop oil concentrate or nonionic surfactant at the recommended rates

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Rhizomes or stolons were cut up by preplant tillage.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- Rhizomes and stolons were not cut up by preplant tillage.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

12-3-5

Rhizome Johnsongrass (Sorghum halepense)

Apply 0.063 to 0.188 lb a.i./A (½ to 1½ pints of PP005 1E/A) to johnsongrass when it is 12-18 inches tall and before the boot stage. If regrowth occurs, apply 0.063 to 0.125 lb a.i./A (½ to 1 pint of PP005 1E/A) when regrowth is 6-12 inches tall. Do not apply a total of more than 0.75 lb a.i./A (6 pints of PP005 1E/A) per season. ✓

Bermudagrass (Cynodon dactylon)

Apply 0.094 to 0.25 lb a.i./A (¾ to 2 pints of PP005 1E/A) to bermudagrass up to three inches in height or 4-8 inches in stolon (runner) length. Bermudagrass may regrow. For season-long control, make a second application of 0.094 to 0.188 lb a.i./A (¾ to 1½ pints of PP005 1E/A) 2 to 6 weeks after the first application. ✓

Because bermudagrass is a low growing perennial, the crop canopy may shield it from herbicide sprays. Coverage may be improved by directing the spray under the crop canopy. Do not apply a total of more than 0.75 lb a.i./A (6 pints of PP005 1E/A) per season.

Spot Treatments

Mix PP005 1E and crop oil concentrate or nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary. Applications must be made prior to boll set in cotton. Do not apply a total or more than 0.75 lb a.i./A (6 pints of PP005 1E) per season.

To Make This Spray Volume	Add These Amounts		
	PP005 1E lb a.i.	Crop Oil Concentrate	or Nonionic Surfactant
1 gallon	0.0075 (1 fl.oz.)	1-1/4 fl. oz.	1/3 fl. oz.
25 gallons	0.188 (1½ pints)	1 quart	1/2 pint
50 gallons	0.375 (3 pints)	2 quarts	1 pint
100 gallons	0.75 (6 pints)	1 gallon	1 quart

REGION B - IRRIGATED AREAS OF Arizona, California, New Mexico, West Oklahoma and West Texas.

Apply PP005 1E to actively growing grasses.

For best results, apply PP005 1E within seven days after irrigation

Always add either crop oil concentrate or nonionic surfactant

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Rhizomes or stolons were cut up by preplant tillage.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- Rhizomes and stolons were not cut up by preplant tillage.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

Rhizome Johnsongrass (Sorghum halepense)

Apply 0.188 to 0.5 lb a.i./A (1½ to 4 pints of PP005/1E/A) to johnsongrass when it is 12-18 inches tall and before the boot stage. For season-long control, make a second application of 0.188 to 0.25 lb a.i./A (1½ to 2 pints of PP005 1E/A) 2-6 weeks after the first application. Do not apply a total of more than 0.75 lb a.i./A (6 pints of PP005 1E/A) per season. ✓

Bermudagrass (Cynodon dactylon)

Apply 0.188 to 0.5 lb a.i./A (1½ to 4 pints of PP005 1E/A) to bermudagrass when it is 3 inches in height or 4-8 inches in stolon (runner) length. For season-long control, make a second application of 0.188 to 0.25 lb a.i./A (1½ to 2 pints of PP005 1E/A) 2-6 weeks after the first application. ✓

Because bermudagrass is a low-growing perennial, the crop canopy may shield it from herbicide sprays. Coverage may be improved by directing the spray under the crop canopy. Do not apply a total of more than 0.75 lb a.i./A (6 pints of PP005 1E/A) per season.

Spot Treatments

Mix PP005 1E and crop oil concentrate or nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary. Application must be made prior to boll set in cotton. Do not apply a total of more than 0.75 lb a.i./A per season (6 pints of PP005 1E/A). ✓

<u>To Make This Spray Volume</u>	<u>Add These Amounts</u>		
	<u>PP005 1E lb a.i.</u>	<u>Crop Oil Concentrate</u>	<u>or</u> <u>Nonionic Surfactant</u>
1 gallon	0.0075 (1 fl.oz.)	1 1/4 fl. oz.	1/3 fl. oz.
25 gallons	0.188 (1 1/2 pints)	1 quart	1/2 pint
50 gallons	0.375 (3 pints)	2 quarts	1 pint
100 gallons	0.75 (6 pints)	1 gallon	1 quart

ANNUAL GRASS CONTROL

For grasses not exceeding the growth stages shown in Table 1, and before tillering, apply PP005 1E at the rates recommended in Table 1. Do not apply a total of more than 0.75 lb a.i./A (6 pints of PP005 1E/A) per season.

RESIDUAL ANNUAL GRASS CONTROL

Under conditions where rainfall is adequate following PP005 1E application, soil residual activity may be observed. This may result in control or suppression of new flushes of annual grasses. The amount of residual control is dependent on the PP005 1E rate used, grass density and soil type, with more activity being seen with higher rates on coarse-textured soils low in organic matter.

TABLE 1

ANNUAL GRASS CONTROL

Apply PP005 1E to actively growing grasses. Apply to grasses no larger than the size indicated in this table. Always add the recommended rate of nonphytotoxic oil concentrate or nonionic surfactant.

Do not use flood type or other nozzle tips which deliver coarse sprays.

REGION A - AREAS WITH ADEQUATE RAINFALL (FOR ALL STATES EXCEPT THE IRRIGATED AREAS OF ARIZONA, CALIFORNIA, NEW MEXICO, WEST OKLAHOMA AND WEST TEXAS.)

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

<u>Grass Species</u>	<u>Height (Inches)</u>	<u>Rate Pints of PP005 1E/A</u>
<u>Group 1</u>		
Shattercane/Wildcane/Volunterr milo (<u>Sorghum bicolor</u>)	6-12	1/4 - 3/4
Volunteer corn (<u>Zea mays</u>)	12-24	1/4 - 3/4
Seedling johnsongrass (<u>Sorghum halepense</u>)	4-12	1/4 - 3/4
<u>Group 2</u>		
Broadleaf signalgrass (<u>Brachiaria platyphylla</u>)	2-4	1/2 - 1-1/2
Fall panicum (<u>Panicum dichotomiflorum</u>)	2-4	1/2 - 1-1/2
Goosegrass (<u>Eleusine indica</u>)	2-4	1/2 - 1-1/2
Texas panicum (<u>Panicum texanum</u>)	2-4	1/2 - 1-1/2
Wild oats (<u>Avena fatua</u>)	2-4	1/2 - 1-1/2
Volunteer oats (<u>Avena sativa</u>)	2-4	1/2 - 1-1/2
Volunteer wheat (<u>Triticum aestivum</u>)	2-4	1/2 - 1-1/2
Volunteer rye (<u>Secale cereale</u>)	2-4	1/2 - 1-1/2
Witchgrass (<u>Panicum capillare</u>)	2-4	1/2 - 1-1/2
<u>Group 3</u>		
Barnyardgrass (<u>Echinochloa crus-galli</u>)	2-4	1 - 2
Junglerice (<u>Echinochloa colonum</u>)	2-4	1 - 2
Itchgrass (<u>Rottboellia exaltata</u>)	2-4	1 - 2
Large crabgrass (<u>Digitaria sanguinalis</u>)	2-4 ^{a/}	1 - 2
Smooth crabgrass (<u>Digitaria ischaemum</u>)	2-4 ^{a/}	1 - 2
Southern sandbur (<u>Cenchrus echinatus</u>)	2-4	1 - 2
Yellow foxtail (<u>Setaria lutescens</u>)	4-6	1 - 2
Green foxtail (<u>Setaria viridis</u>)	4-6	1 - 2
Giant foxtail (<u>Setaria faberi</u>)	4-6 ^{b/}	1 - 2
Red rice (<u>Oryza sativa</u>)	1-2 ^{b/}	1 - 2
Volunteer barley (<u>Hordeum vulgare</u>)	2-4	1 - 2
Tighthead Sprangle Top (<u>Leptochloa panicoides</u>)	2-4	1 - 2
Loosehead Sprangle Top (<u>Leptochloa fascicularis</u>)	2-4	1 - 2

^{a/} Length of runners or numbers of leaves
^{b/} Two or three leaves

Retreat at the recommended rate if needed to control late-germinating grasses or regrowth.

When mixed grass populations include grasses from Group 2 use the higher rate range of PP005 1E for broad-spectrum control.

REGION B - IRRIGATED AREAS OF ARIZONA, CALIFORNIA, NEW MEXICO, WEST OKLAHOMA AND WEST TEXAS.

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

<u>Grass Species</u>	<u>Height (Inches)</u>	<u>Rate Pints of PP005 1E/A</u>
Seedling johnsongrass (<u>Sorghum halepense</u>)	4-12	1 - 4
Shattercane/Wildcane/Volunteer milo (<u>Sorghum bicolor</u>)	6-12	1 - 4
Volunteer corn (<u>Zea mays</u>)	12-24	1 - 4
Volunteer oats (<u>Avena sativa</u>)	2-4	1 - 4
Volunteer wheat (<u>Triticum aestivum</u>)	2-4	1 - 4
Barnyardgrass (<u>Echinochloa crus-galli</u>)	2-4	1 - 4
Field sandbur (<u>Cenchrus pauciflorus</u>)	2-4	1 - 4
Southern sandbur (<u>Cenchrus echinatus</u>)	2-4	1 - 4
Junglerice (<u>Echinochloa colonum</u>)	2-4	1 - 4
Large crabgrass (<u>Digitaria sanguinalis</u>)	2-4	1 - 4
Prairie cupgrass (<u>Eriochloa contracta</u>)	2-4	1 - 4
Southwestern cupgrass (<u>Eriochloa gracilis</u>)	2-4	1 - 4
Volunteer barley (<u>Hordeum vulgare</u>)	2-4	1 - 4
Red sprangle top (<u>Leptochloa filiformis</u>)	2-4	1 - 4
Mexican sprangle top (<u>Leptochloa uninervia</u>)	2-4	1 - 4

Retreat at the recommended rate if needed to control late-germinating grasses or regrowth. Do not apply a total of more than 0.75 lbs ai/A (6 pints of PP005 1E/A) per season.

Remarks and Precautions

Do not apply a total of more than 0.75 lb a.i./A (6 pints of PP005 1E/A) per season to cotton.

Clean sprayer thoroughly before and after the application of PP005 1E. Failure to clean sprayer thoroughly after application may result in injury to any grass crop subsequently sprayed, including corn, sorghum, small grains, sugarcane, rice and turf.

Avoid drift to all other crops and nontarget areas. Grass crops are highly susceptible to PP005 1E.

Do not plant rotational grass crops such as corn, sorghum and cereals within 60 days after last application.

Do not harvest cotton within 90 days of application.

Do not apply after boll set.

Do not graze or harvest for forage or hay.

Do not tank mix PP005 1E with herbicides or other pesticides, with liquid fertilizers or with any other additive except as specified on this label. Sequential application of other herbicides within five days before or after PP005 2E application has sometimes results in crop injury and reduced grass control. ✓

Do not apply PP005 1E with recirculating sprays, ropewick applicators or any similar devices.

Do not apply PP005 1E if rainfall is expected within 1 hour.

SOYBEANS

APPLICATION DIRECTIONS

Apply to actively growing grasses before they exceed the recommended growth stages shown on this label.

Spray Volume and Pressure

Use sufficient spray volume and pressure to ensure complete coverage. With ground equipment, use a minimum of 10 gallons per acre and 30-60 psi pressure. Use 60 psi if grass foliage is dense. /

DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLE TIPS
WHICH DELIVER COARSE SPRAYS

Spray Additives (Cleared for use on growing crops)

ALWAYS ADD ONE OF THE FOLLOWING:

Crop Oil Concentrate

Add crop oil concentrate at 1% (1 quart per 25 gallons) of the finished spray volume. Use only nonphytotoxic crop oil concentrates that contain 15-20% surfactant.

OR

Nonionic Surfactant

Add nonionic surfactant at 0.25% (1/2 pint per 25 gallons) of the finished spray volume. Use only nonionic surfactants that contain at least 75% surface active agent. Symptoms often develop faster when crop oil concentrate is used than when nonionic surfactant is used, but there will be little, if any, difference in final control.

Ground Application

Use sufficient spray volume and pressure to ensure complete coverage. With group equipment, use a minimum of 5 gallons per acre and 30-60 psi pressure. Use 60 psi if grass foliage is dense.

DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLE TIPS
WHICH DELIVER COARSE SPRAYS

Aerial Application

Use a minimum of 5 gallons per acre for aerial application.

Cultivation

Cultivation of perennial grasses from 7 days prior until 3 days after application of PP005 1E may reduce control due to 1) destruction of grass foliage which otherwise would adsorb and translocate PP005 1E into rhizomes and stolons; 2) inducing a stress on grass remaining in the uncultivated part of the field, thereby reducing uptake and translocation of PP005 1E. However, cultivation no sooner than 3 days after application will often assist in grass control.

Cultivation of annual grasses from 7 days prior until 7 days after application of PP005 1E may reduce control due to 1) inducing a stress on grass remaining in the uncultivated part of the field, thereby reducing uptake and translocation of PP005 1E; 2) physical covering of small seedlings with soil which prevents foliage contact by the spray. However, cultivation not sooner than 7 days following application will often assist in grass control.

Band Applications

When making band applications, equipment should be adjusted to provide maximum coverage of grasses in the row (drill). Thorough coverage can be obtained with a nozzle directed to each side of the row toward the grass in the row. Application with a single nozzle over the top of the row is not recommended. The use of band applications on perennial grasses may result in reinfestation of the treated band from the untreated middle.

PERENNIAL GRASS CONTROL

For best results, rhizomes or stolons must be cut up by preplant tillage (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Because rhizomes and stolons are not cut up by preplant tillage in no-till and reduced tillage plantings, a second application is recommended for season-long control. Apply PP005 1E to actively growing grasses.

Two applications of PP005 1E are generally more effective for full season control than a single application of the same total amount.

Apply PP005 1E to actively growing grasses.

Always add either crop oil concentrate or nonionic surfactant at the recommended rates

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Rhizomes or stolons were cut up by preplant tillage.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- Rhizomes and stolons were not cut up by preplant tillage.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

Rhizome Johnsongrass (Sorghum halepense)

Apply 0.063 to 0.25 lb a.i./A ($\frac{1}{2}$ to 2 pints of PP005 1E/A) to johnsongrass when it is 12-18 inches tall and before the boot stage. If regrowth occurs, apply 0.063 to 0.25 lb a.i./A ($\frac{1}{2}$ to 2 pints of PP005 1E/A) when regrowth is 6-12 inches tall. Do not apply a total of more than 0.5 lb a.i./A (4 pints of PP005 1E/A) per season.

Bermudagrass (Cynodon dactylon)

Apply 0.094 to 0.25 lb a.i./A (3/4 to 2 pints of PP005 1E/A) to bermudagrass up to three inches in height or 4-8 inches in stolon (runner) length. Bermudagrass may regrow. For season-long control, apply 0.094 to 0.25 lb a.i./A (3/4 to 2 pints of PP005 1E/A) 2 to 6 weeks after the first application.

Because bermudagrass is a low growing perennial, the crop canopy may shield it from herbicide sprays. Coverage may be improved by directing the spray under the crop canopy. Do not apply a total of more than 0.5 lb a.i./A (4 pints of PP005 1E/A) per season.

Quackgrass (Agropyron repens)

Apply 0.063 to 0.25 lb a.i./A (1/2 to 2 pints of PP005 1E/A) to quackgrass that has 3 to 5 leaves and does not exceed 10 inches in height. Quackgrass may regrow. For season long control, apply 0.063 to 0.25 lb a.i./A (1/2 to 2 pints of PP005 1E/A) 2 to 6 weeks after the first application. Do not apply a total of more than 0.5 lb a.i./A (4 pints of PP005 1E/A) per season.

Wirestem muhly (Mulhenbergia frondosa)

Apply 0.063 to 0.25 lb a.i./A (1/2 to 2 pints of PP005 1E/A) to wirestem muhly when it is 4 to 12 inches tall. Wirestem muhly may regrow. For season-long control, apply 0.063 to 0.25 lb a.i./A (1/2 to 2 pints of PP005 1E/A) two to six weeks after the first application. Do not apply a total of more than 0.5 lb a.i./A (4 pints of PP005 1E/A) per season.

Spot Treatments

Mix PP005 1E and crop oil concentrate of nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary. Applications must be made prior to bloom in soybeans. Do not apply a total of more than 0.5 lb a.i./A (4 pints of PP005 1E/A) per season.

<u>To Make This Spray Volume</u>	<u>Add These Amounts</u>		
	<u>PP005 1E lb a.i.</u>	<u>Crop Oil Concentrate</u>	<u>Nonionic Surfactant</u>
1 gallon	0.0075 (1 fl.oz.)	1 1/4 fl. oz.	1/3 fl. oz.
25 gallons	0.188 (1 1/2 pints)	1 quart	1/2 pint
50 gallons	0.375 (3 pints)	2 quarts	1 pint
100 gallons	0.75 (6 pints)	1 gallon	1 quart

ANNUAL GRASS CONTROL

For grasses not exceeding the growth stages shown in Table 2, and before tillering, apply PP005 1E at the rates recommended in Table 2. Do not apply a total of more than 0.5 lb a.i./A (4 pints of PP005 1E/A) per season.

RESIDUAL ANNUAL GRASS CONTROL

Under conditions where rainfall is adequate following application, soil residual activity may be observed. This may result in control or suppression of new flushes of annual grasses. The amount of residual control is dependent on the PP005 1E rate used, grass density and soil type, with more activity being seen with higher rates on coarse-textured soils low in organic matter.

TABLE 2

ANNUAL GRASS CONTROL

Apply PP005 1E to actively growing grasses. Apply to grasses no larger than the size indicated in this table. Always add the recommended rate of nonphytotoxic oil concentrate or nonionic surfactant.

Do not use flood type or other nozzle tips which deliver coarse sprays. ✓

USE LOWER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage can be achieved.
- A majority of the grass is less than the maximum recommended height.
- Environmental conditions are optimal: abundant soil moisture, warm temperatures and high humidity.

USE HIGHER RECOMMENDED RATES WHEN:

- Complete wetting of all grass foliage cannot be achieved.
- A majority of the grass is at the maximum recommended height.
- One or more environmental conditions is less than optimal: limited soil moisture, cool temperatures or low humidity.

<u>Grass Species</u>	<u>Height (inches)</u>	<u>Rate Pints of PP005 1E/A</u>
<u>Group 1</u>		
Shattercane/Wildcane/Volunterr milo (<u>Sorghum bicolor</u>)	6-12	1/4 - 3/4
Volunteer corn (<u>Zea mays</u>)	12-24	1/4 - 3/4
Seedling johnsongrass (<u>Sorghum halepense</u>)	4-12	1/4 - 3/4
<u>Group 2</u>		
Wild proso millet (<u>Panicum miliaceum</u>)	4-8	1/2 - 1-1/2
Broadleaf signalgrass (<u>Brachiaria platyphylla</u>)	2-4	1/2 - 1-1/2
Fall panicum (<u>Panicum dichotomiflorum</u>)	2-4	1/2 - 1-1/2
Goosegrass (<u>Eleusine indica</u>)	2-4	1/2 - 1-1/2
Texas panicum (<u>Panicum texanum</u>)	2-4	1/2 - 1-1/2
Wild oats (<u>Avena fatua</u>)	2-4	1/2 - 1-1/2
Volunteer oats (<u>Avena sativa</u>)	2-4	1/2 - 1-1/2
Volunteer wheat (<u>Triticum aestivum</u>)	2-4	1/2 - 1-1/2
Volunteer rye (<u>Secale cereale</u>)	2-4	1/2 - 1-1/2
Witchgrass (<u>Panicum capillare</u>)	2-4	1/2 - 1-1/2
<u>Group 3</u>		
Barnyardgrass (<u>Echinochloa crus-galli</u>)	2-4	1 - 2
Junglerice (<u>Echinochloa colonum</u>)	2-4	1 - 2
Itchgrass (<u>Rottboellia exaltata</u>)	2-4	1 - 2
Large crabgrass (<u>Digitaria sanguinalis</u>)	2-4 ^{a/}	1 - 2
Smooth crabgrass (<u>Digitaria ischaemum</u>)	2-4 ^{a/}	1 - 2
Southern sandbur (<u>Cenchrus echinatus</u>)	2-4	1 - 2
Yellow foxtail (<u>Setaria lutescens</u>)	4-6	1 - 2
Green foxtail (<u>Setaria viridis</u>)	4-6	1 - 2
Giant foxtail (<u>Setaria faberi</u>)	4-6	1 - 2
Red rice (<u>Oryza sativa</u>)	1-2 ^{b/}	1 - 2
Volunteer barley (<u>Hordeum vulgare</u>)	2-4	1 - 2
Woolly Cupgrass (<u>Eriochloa villosa</u>)	2-4	1 - 2
Tighthead Sprangle Top (<u>Leptochloa panicoides</u>)	2-4	1 - 2
Loosehead Sprangle Top (<u>Leptochloa fascicularis</u>)	2-4	1 - 2

a/ Length of runners or numbers of leaves
b/ Two or three leaves

When mixed grass populations include grasses from Group 2 or 3, use the higher rate range for broad-spectrum control. Retreat at the recommended rate if needed to control late germinating grasses or regrowth.

Remarks and Precautions

Do not apply a total of more than 0.5 lb a.i./A (4 pints of PP005 1E/A) per season to soybeans.

Clean sprayer thoroughly before and after the application of PP005 1E. Failure to clean sprayer thoroughly after application may result in injury to any grass crop subsequently sprayed, including corn, sorghum, small grains, sugarcane, rice and turf.

Avoid drift to all other crops and nontarget areas. Grass crops are highly susceptible to PP005 1E.

Do not plant rotational grass crops such as corn, sorghum and cereals within 60 days after last application.

Make last application before soybean bloom.

Do not graze or harvest for forage or hay.

Do not tank mix PP005 1E with herbicides or other pesticides, with liquid fertilizers or with any other additive except as specified on this label. Sequential application of other herbicides within five days before or after PP005 1E application has sometimes results in crop injury and reduced grass control.

Do not apply PP005 1E with recirculating sprays, ropewick applicators or any similar devices.

Do not apply PP005 1E if rainfall is expected within 1 hour.

Conversion Table

PP005 1E Rate to be Applied

<u>lb ai/A</u>	<u>Pints/A</u>	<u>fl oz/A</u>	<u>A/gal</u>
0.031	1/4	4	32
0.063	1/2	8	16
0.094	3/4	12	10.7
0.125	1	16	8
0.188	1-1/2	24	5.3
0.250	2	32	4
0.5	4	64	2

PP005 1E contains 1 pound of active ingredient per gallon.

SUPPLEMENTAL LABEL FOR
NONCROP AND NONFOOD USES

PP005 1E Herbicide

EPA Reg. No. 10182-

Not for use or storage in or around the home.

DIRECTIONS FOR USE

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

This labeling must be in the possession of the user at the time of pesticide application.

GENERAL INFORMATION

PP005 1E is a selective postemergence herbicide for control of annual and perennial grasses in many nonfood crops and noncrop areas. PP005 1E does not control broadleaf weeds or sedges (nutgrass).

Application Information and Timing - Thorough spray coverage is required for optimum control of grasses present. Apply to actively growing grasses before they exceed the recommended growth stages shown on this label.

Control Symptoms - PP005 1E is a systemic herbicide which moves from the treated foliage into the rhizomes, stolons, and growing points of grasses. Excellent control of a wide range of annual and perennial grasses will be obtained with PP005 1E when applied as recommended on this label.

Growth of treated grasses stops soon after application. Symptoms include loss of vigor, yellowing and/or reddening, and necrosis. Symptoms are generally observed within one to three weeks, depending on grass species and environmental conditions.

REMARKS AND PRECAUTIONS

Environmental Hazards: This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of waste. Do not apply when weather conditions favor drift from target area.

Do not apply PP005 1E if rainfall is expected within 1 hour.

Do not tank mix PP005 1E with herbicides or other pesticides, with liquid fertilizers or with any other additives except as specified on this label. Sequential application of other herbicides within five days before or after PP005 1E application has sometimes resulted in reduced grass control.

Clean sprayer thoroughly before and after the application of PP005 1E. Failure to clean sprayer thoroughly after application may result in injury to any grass crop subsequently sprayed, including corn, sorghum, small grains, sugar cane, rice and turf. ✓

Avoid drift to all other crops and nontarget areas. Grass crops such as corn, sorghum, small grains, sugar cane, rice and turf are highly susceptible to PP005 1E.

All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

NONCROP AREAS

PP005 1E herbicide can be used to control grass weeds in areas such as airports, electric transformer stations and substations, pipeline pumping stations, around buildings, storage yards, fence lines, parkways, roadsides, rights-of-way, and other noncropland areas.

NOTE: IF SPRAYING AREAS ADJACENT TO ORNAMENTAL TREES, SHRUBS OR GROUND COVERS:

DO NOT APPLY TO FOLIAGE OF ORNAMENTAL TREES, SHRUBS OR GROUND COVERS UNLESS THEY ARE LISTED IN TABLE I OF THE ORNAMENTAL SECTION OF THIS LABEL.

For specific rates of application and instructions for control of grass weeds, see the "Directions for Application" section of this label.

FALLOW LAND

PP005 1E herbicide can be used to control grass weeds during fallow periods.

Do not plant rotational crops other than cotton and soybeans within 60 days after last application.

For specific rates of application and instructions for control of grass weeds, see the "Directions for Application" section of this label.

NONBEARING TREE CROPS, VINES, ASPARAGUS AND JOJOBA

PP005 1E herbicide can be used to control grass weeds in nonbearing groves, orchards or vineyards or for site preparation prior to transplanting.

APPLY AS A DIRECTED SPRAY TO PREVENT CONTACT OF SPRAY WITH FOLIAGE OF TREES OR VINES.

DO NOT APPLY TO TREES OR VINES THAT WILL BE HARVESTED WITHIN ONE YEAR AFTER APPLICATION.

DO NOT APPLY TO ASPARAGUS FROM WHICH SPEARS WILL BE HARVESTED WITHIN ONE YEAR OF TREATMENT.

PP005 1E is recommended on the following nonbearing crops:

- | | | |
|-----------|------------|--------------|
| Almonds | Grapes | Pears |
| Apples | Grapefruit | Pecans |
| Apricots | Jojoba | Pistachios |
| Asparagus | Lemons | Plums |
| Avocados | Limes | Pomegranates |
| Berries | Macadamia | Prunes |
| Cherries | Nectarines | Tangelos |
| Dates | Olives | Tangerines |
| Figs | Oranges | Walnuts |
| Filberts | Peaches | |

For specific rates of application and instructions for control of grass weeds, see the "Directions for Application" section of this label.

ORNAMENTALS

PP005 1E herbicide can be used to control grass weeds in many newly transplanted and established nongrassy ornamentals, trees, shrubs and ground covers. See the following Tables I and II for specific recommended uses. (USE ONLY NONIONIC SURFACTANT ON ORNAMENTALS.)

Application of PP005 1E may be made over-the-top to ornamentals listed in Table I. Apply as a directed spray to prevent contact of spray with foliage of ornamentals listed in Table II.

For specific rates of application and instructions for control of grass weeds, see the "Directions for Application" section of this label.

DIRECTIONS FOR APPLICATION

Use 0.25-0.5 lb. (2 to 4 pints of PP005 1E) per acre. Always add one of the following: Crop Oil Concentrate - Add a nonphytotoxic crop oil or a once-refined vegetable oil concentrate containing 15-20% surfactant at 1% (1 quart per 25 gallons) of the finished spray volume

or

Nonionic Surfactant - Add nonionic surfactant containing at least 75% surface active agent, at 0.25% ($\frac{1}{2}$ pint per 25 gallons) of the finished spray volume.

USE ONLY NONIONIC SURFACTANT ON ORNAMENTALS

Apply by ground equipment using 25 gallons of diluted spray per treated acre with 30-60 psi pressure. Spray to obtain thorough coverage of grass foliage, but not to run-off. Repeat treatments may be necessary to provide full-season control. Use standard pesticide hollow cone or flat fan nozzles.

AERIAL APPLICATION

Use a minimum of 5 gallons per acre for aerial application.

SPOT TREATMENTS

Mix PP005 1E and crop oil concentrate or nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary.

<u>To Make This Spray Volume</u>	<u>Add These Amounts</u>		
	<u>PP005 1E lb. a.i.</u>	<u>Crop Oil Concentrate or</u>	<u>Nonionic Surf.</u>
1 gallon	0.0075 (1 fl.oz.)	1-1/4 fl. oz.	1/3 fl. oz.
25 gallons	0.188 (1 1/2 pints)	1 quart	1/2 pint
50 gallons	0.375 (3 pints)	2 quarts	1 pint
100 gallons	0.75 (6 pints)	1 gallon	1 quart

Apply PP005 1E to actively growing grasses before they exceed the recommended growth stages shown below:

<u>Grass</u>	<u>Growth Stage</u>
<u>Perennial Grasses</u>	
Johnsongrass (<u>Sorghum halepense</u>)	12-18" tall and before boot stage.
Bermudagrass (<u>Cynodon dactylon</u>)	3" tall or with 4-8" runners.
Quackgrass (<u>Agropyron repens</u>)	3-5 leaves, not more than 10" tall.
Guineagrass (<u>Panicum maximum</u>)	6-12" tall and before seedhead initiation

Annual Grasses

- Barnyardgrass (Echinochloa crusgalli)
- Broadleaf signalgrass (Brachiaria platyphylla)
- Fall panicum (Panicum dichotomiflorum)
- Field sandbur (Cenchrus pauciflorus)
- Foxtail, green (Setaria viridis)
- Foxtail, giant (Setaria faberi)
- Foxtail, yellow (Setaria lunescens)
- Goosegrass (Eleusine indica)
- Guineagrass, seedling (Panicum maximum)
- Itchgrass (Rottboellia exaltata)
- Johnsongrass, seedling (Sorghum halepense)
- Junglerice (Echinochloa colonum)
- Large crabgrass (Digitaria sanguinalis)
- Prairie cupgrass (Eriochloa contracta)
- Red rice (Oryza sativa)
- Shattercane/Wildcane/Volunteer milo (Sorghum bicolor)
- Smooth crabgrass (Digitaria ischaemum)
- Southern sandbur (Cenchrus echinatus)
- Southwestern cupgrass (Eriochloa gracilis)
- Texas panicum (Panicum texanum)
- Volunteer barley (Hordeum vulgare)
- Volunteer corn (Zea mays)
- Volunteer wheat (Triticum aestivum)
- Wild oats (Avena fatua)
- Wild proso millet (Panicum miliaceum)
- Witchgrass (Panicum capillare)

2-8" tall,
before
tillering
and/or
heading.



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TABLE I

OVER-THE-TOP APPLICATIONS may be applied to the following
ornamentals:

USE ONLY NONIONIC SURFACTANT ON ORNAMENTALS

Alyssum <u>Alyssum spp.</u>	Holly <u>Ilex spp.</u>
Arborvitae <u>Thuja spp.</u>	Japanese snowball <u>Viburnum spp.</u>
Cinquefoil <u>Potentilla spp.</u>	Lilyturf <u>Liriope spp.</u>
Cotoneaster <u>Cotoneaster spp.</u>	O'Connor's legume <u>Trifolium fragiferum</u>
Dogwood <u>Cornus spp.</u>	Periwinkle <u>Vinca minor</u>
Douglas fir ^{1/} <u>Pseudotsuga spp.</u>	Pine ^{1/} <u>Pinus spp.</u>
English Ivy <u>Hedera helix</u>	Privet <u>Ligustrum spp.</u>
Euonymus <u>Euonymus spp.</u>	Rhododendron (excluding Azalea)
Fir ^{1/} <u>Abies spp.</u>	Spruce ^{1/} <u>Picea spp.</u>
Forsythia <u>Forsythia spp.</u>	Yew ^{1/} <u>Taxus spp.</u>
Hemlock ^{1/} <u>Tsuga spp.</u>	

^{1/} DIRECTED APPLICATION recommended from budbreak, through
initial growth hardening.

NOTICE TO USER:

It is impossible to test every species and variety of ornamental
or nursery plants. Plant tolerance to PP005 1E has been found to
be acceptable in the above specified genera and species. Neither
the manufacturer nor the seller has determined whether or not
PP005 1E can safely be used on plants not specified on this label.
The professional user should determine if PP005 1E can be used
safely prior to use.

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TABLE II

DIRECTED APPLICATIONS to avoid ornamental foliage are recommended for the following:

Ajuga
Ajuga spp.

Almond (flowering)
Prunus spp.

Ash
Fraxinus spp.

Azalea
Rhododendron spp.

Barberry
Berberis spp.

Beech
Fagus spp.

Birch
Betula spp.

Boxwood
Buxus spp.

Cherry (flowering)
Prunus spp.

Crabapple
Malus spp.

Crepe Myrtle
Lagerstroemia indica

Elm
Ulmus spp.

Eucalyptus
Eucalyptus spp.

Firethorn
Pyracantha spp.

Magnolia
Magnolia spp.

Maple
Acer spp.

Narigold
Calendula spp.

Mountainash
Sorbus spp.

Oak
Quercus spp.

Peach (flowering)
Prunus spp.

Pear (flowering)
Pyrus spp.

Petunia
Petunia spp.

Photinia
Photinia spp.

Pittosporum
Pittosporum spp.

Plum (Flowering)
Prunus spp.

Quince
Chaenomeles spp.

Redbud
Cercis spp.

Spirea
Spiraea spp.



Continued...

TABLE II (Continued)

Gardenia
Gardenia spp.

Geranium
Pelargonium spp.

Horsechestnut
Aesculus spp.

Impatiens
Impatiens spp.

Juniper
Juniperus spp.

Sweet-gum
Liquidambar spp.

Tulip-tree
Liriodendron spp.

Willow
Salix spp.

Zinnia
Zinnia spp.

NOTICE TO BUYER: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller and Buyer assumes the risk of any such use. Seller disclaims all other warranties expressed or implied including any warranty of fitness or merchantability. Seller shall not be liable for consequential special or indirect damages resulting from the use or handling of this product and Seller's sole liability and Buyer's exclusive remedy shall be limited to the refund of the purchase price.

Conversion Table

PP005 1E Rate to be Applied

Lb ai/A	Pints/A	Fl oz/A	A/Gal
0.031	1/4	4	32
0.063	1/2	8	16
0.094	3/4	12	10.7
0.125	1	16	8
0.188	1-1/2	24	5.3
0.250	2	32	4
0.500	4	64	2

PP005 1E contains 1 pound of active ingredient per gallon.

Note: Tank mix applications sometimes have resulted in reduced grass weed control and possible increases in crop injury as compared to either product used alone. If grass regrowth occurs following an application of the tank mix or an additional flush of grasses emerge, make a second application of PP005 1E herbicide to actively growing grass weeds, as per the label recommendations. A tank mix application is not recommended if perennial grass weeds are the predominant grasses to be controlled.

POSTEMERGENCE USE RESTRICTIONS (PARTIAL LIST)

- 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.
- Do not apply a total of more than 0.5 lb a.i. (4 pints of PP005 1E) per acre per season to soybeans.
- Do not apply more than 4 pints (1.0 lb active) per acre of BLAZER 2L herbicide per growing season for soybeans.
- Make the last PP005 1E herbicide application before soybean bloom. Do not apply within 100 days of harvest for soybeans.
- Do not apply BLAZER 2L herbicide within 50 days of harvest for soybeans.
- Do not use treated plants for feed or forage.
- Do not plant rotational grass crops such as corn, sorghum and cereals within 60 days after the last PP005 1E herbicide application.
- Crop Rotation Restriction: Root crops (such as carrots, turnips, sweet potatoes, etc.) must not be planted in fields that have been treated with Blazer 2L herbicide for a period of 18 months following the last treatment.
- In the case of crop failure, only soybeans may be immediately replanted.
- Avoid drift to all other crops and non-target areas.
- Thoroughly flush spray tanks with water before and after each use.

- BLAZER 2L herbicide requires a six hour rain-free period for best results. Do not apply BLAZER 2L herbicide or PP005 1E/BLAZER 2L herbicide tank mix if rain is threatening.
- Do not make more than one application of the PP005 1E/BLAZER 2L herbicide tank mix in a single season.
- Do not use during dry weather conditions when crop and weeds are under stress or wilt and not actively growing, as weed control may be reduced.
- Do not apply BLAZER 2L herbicide or PP005 1E/BLAZER 2L herbicide tank mix when crop and weeds are under stress from cold temperature, when maximum day temperature is below 70°F, or when soil temperature is below 60°F, as weeds will not be actively growing and control may be reduced.
- Do not apply BLAZER 2L herbicide or PP005 1E/BLAZER 2L herbicide tank mix when crops are exhibiting injury from previously applied pesticides or are exhibiting stress symptoms from disease, nematodes or insects, as increased crop response may result.
- Do not apply BLAZER 2L herbicide or PP005 1E/BLAZER 2L herbicide tank mix when crop and weeds are under stress from excessive fertilizer or soil salts, wind injury, frost damage, or high temperature stress or wilt, as increased crop response may result.
- Do not mix PP005 1E herbicide, or PP005 1E/Blazer 2L herbicide tank mix with other pesticides or liquid fertilizers except as specified on this label or other approved ICI Americas supplemental labeling.