

707-145

PM23

1 of 28

**ACCEPTED**  
**OCT 1 1990**  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide regulated under EPA Reg. No. 707-145



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KEEP OUT OF REACH OF CHILDREN

**WARNING AVISO**

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions, and Storage and Disposal Instructions on side panel and attached use directions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

**ACTIVE INGREDIENT**  
 Oxyfluorfen  
 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-  
 4-(trifluoromethyl) benzene ..... 22.6%  
**INERT INGREDIENTS** ..... 77.4%  
 100.0%  
 \*Equivalent to 2.0 lbs. active ingredient per gallon.  
 This product contains the toxic inert ingredient dimethylformamide (DMF).  
 EPA Reg. No. 707-145  
 EPA Est No. 707-PA-1  
 U.S. Pat. No. 3,798,276

**NET CONTENTS 2.5 GALLONS (9.46 LITERS)**

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### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

#### WARNING

Causes substantial but temporary eye injury and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield. This material may be harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

#### Statement of Practical Treatment

**IF IN EYES:** Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention.

**IF ON SKIN:** Wash thoroughly with plenty of soap and water. If irritation develops, get medical attention.

**IF SWALLOWED:** Do not induce vomiting. Dilute by giving 2 glasses of water to drink. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Move victim to fresh air.

**NOTE TO PHYSICIAN:** Contains petroleum distillates. Aspiration hazard may contraindicate the use of gastric lavage.

#### Environmental Hazards

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to aquatic invertebrates, aquatic plants, wildlife and fish. Use with care when applying in areas frequented by wildlife or adjacent to any body of water or wetland area. Do not apply when weather conditions favor drift or erosion from target areas.

#### Physical or Chemical Hazards

Combustible

Do not use or store near heat or open flame.

#### CONDITIONS OF SALE AND WARRANTY

Rohm and Haas warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. **ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

GOAL is a trademark of Rohm and Haas Company  
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### DIRECTIONS FOR USE

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

**SEE ATTACHED BOOKLET ON BACK PANEL FOR COMPLETE USE DIRECTIONS.**

**SHAKE WELL BEFORE USING**

### RE-ENTRY AND WORKER PROTECTION STATEMENTS

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. **SEE USE DIRECTIONS FOR ADDITIONAL RE-ENTRY STATEMENTS.**

### STORAGE AND DISPOSAL

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

**STORAGE:** Keep from freezing. Store above 32°F.

**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 EPA Regional office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Ventilate area. Avoid breathing vapors. Use MSHA/NIOSH self-contained breathing apparatus or airline respirator for large spills in confined areas. Dike the spill with inert material (sand, earth, etc.) and transfer the liquid or solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash exposed skin areas with soap and water. Wash clothing before re-use. Keep spill out of all sewers and open bodies of water.

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MADE IN U.S.A.

This product contains the toxic inert ingredient dimethylformamide (DMF).

## GOAL® 2E HERBICIDE

### USE DIRECTIONS FOR:

**CITRUS (NONBEARING) • CONIFER  
• CORN • COTTON • FALLOW BED AIR  
APPLICATION • FALLOW BED GROUND  
APPLICATION • FALLOW LAND • MINT  
• SOYBEANS • TREEFRUIT/NUT/VINE**

Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

### KEEP OUT OF REACH OF CHILDREN

## WARNING AVISO

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**PRECAUCION AL USUARIO:** Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

Causes substantial but temporary eye injury and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield. This material may be harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

### STATEMENTS OF PRACTICAL TREATMENT

**IF IN EYES:** Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention.

**IF ON SKIN:** Wash thoroughly with plenty of soap and water. If irritation develops, get medical attention.

**IF SWALLOWED:** Do not induce vomiting. Dilute by giving 2 glasses of water to drink. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Move victim to fresh air.

**NOTE TO PHYSICIAN:** Contains petroleum distillates. Aspiration hazard may contraindicate the use of gastric lavage.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to aquatic invertebrates, aquatic plants, wildlife and fish. Use with care when applying in areas frequented by wildlife or adjacent to any body of water or wetland area. Do not apply when weather conditions favor drift or erosion from target areas.

### PHYSICAL OR CHEMICAL HAZARDS

Combustible.

Do not use or store near heat or open flame.

**WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

### DIRECTIONS FOR USE

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

### RE-ENTRY AND WORKER PROTECTION STATEMENTS

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift, expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information:

#### WARNING

(Insert area or field description) treated with GOAL 2E herbicide on (insert date of application). Do not enter treated areas without protective clothing until sprays have dried. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to GOAL 2E herbicide and describe his condition. For further information see the "Statements of Practical Treatment."

Oral warnings must include the same information that is in the written warnings.

### STORAGE AND DISPOSAL

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

**STORAGE:** Keep from freezing. Store above 32°F.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or residue 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

**Plastic Containers:** Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Ventilate area. Avoid breathing vapors. Use MSHA/NIOSH self-contained breathing apparatus or airline respirator for large spills in confined areas. Dike the spill with inert material (sand, earth, etc.) and transfer the liquid or solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash exposed skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and bodies of water.

### CHEMIGATION

Do not apply this product through any type of irrigation system.

### GENERAL CLASSIFICATION

GOAL 2E herbicide is an emulsifiable concentrate containing 2.0 lbs. of active ingredient per gallon. It is useful in pre-emergence, post-emergence or post-directed applications.

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## GENERAL USE INFORMATION

### CULTURAL CONSIDERATIONS

In order for GOAL 2E herbicide to provide maximum preemergence activity:

Prior to application, the bed or soil surface should be smooth and free of crop and weed trash (decaying leaves, clippings, dead weeds, etc.). Leaves and trash may be removed by blowing the area to be treated or by thoroughly mixing the trash into the soil through cultivation prior to herbicide application.

After application, at least one-quarter inch (1/4 inch) of irrigation or rainfall should occur within 3 or 4 weeks after application. The best results from GOAL 2E herbicide are from applications to established beds or soil surfaces that are left undisturbed during the time period for which weed control is desired. Cultural practices that result in redistribution or disturbance of the soil surface after treatment will decrease the herbicidal effectiveness of GOAL 2E. Cutting water furrows or cultivations that mix untreated soil into treated areas will also reduce the effectiveness of the treatment.

### MIXING DIRECTIONS

Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the recommended amount of herbicides to the spray tank. The order of addition to the spray tank should be wettable powders first, flowables second and liquids last. Complete filling of the spray tank with water. For all applications of GOAL 2E herbicide (except onions) where postemergence weed control is desired, add 2 to 4 pints of TRITON AG-98® (or comparable 80% active nonionic surfactant cleared for application to growing crops) per each 100 gallons of spray. The addition of 4 pints of TRITON AG-98 per 100 gallons of spray is recommended to enhance postemergence activity when hard water (greater than 600 ppm) is used as carrier. Maintain agitation until spraying is completed.

Spray equipment should be calibrated carefully before each use.

Dosages listed on this label are for broadcast application. For banded application, the amount of GOAL 2E herbicide used per acre should be reduced according to the following formula:

$$\frac{\text{Band Width (in inches)}}{\text{Row Width (in inches)}} \times \frac{\text{Rate per Broadcast Acre}}{\text{Amount Needed per Acre for Banded Application}}$$

### CITRUS (NONBEARING)

**CALAMONDIN, CHIRONJA, CITRUS CITRON, GRAPEFRUIT, KUMQUAT, LEMON, LIME, MANDARIN, PUMMELO, SATSUMA MANDARIN, SOUR ORANGE, SWEET ORANGE, TANGELO, TANGERINE, TANGOR**  
FOR USE ONLY IN PERMANENTLY ESTABLISHED GROVES IN ARIZONA, CALIFORNIA, FLORIDA, LOUISIANA AND TEXAS

#### GENERAL INFORMATION

GOAL 2E is effective as a preemergence and/or postemergence herbicide when used alone or in recommended tank mix combinations, for the control of certain annual broadleaf weeds in nonbearing citrus plantings. GOAL 2E herbicide may be applied to newly planted trees or to young trees that will not bear fruit within one year.

The most effective postemergence weed control is achieved when GOAL 2E herbicide is applied to seedling weeds at the recommended growth stage. For postemergence control of certain grassy and broadleaf weeds, a tank mix of GOAL 2E herbicide with Gramoxone Super or Roundup can be used.

For residual grass control in citrus, a tank mixture of GOAL 2E herbicide with Devrinol®, simazine, Solicam® or Surflan® can be used. Contact herbicides such as Gramoxone Super or Roundup may also be added to the tank mixture.

Check individual product labels to determine suitability and use rates for various crops.

#### GOAL 2E HERBICIDE USED ALONE

#### GEOGRAPHIC USE DIRECTIONS

##### ARIZONA AND CALIFORNIA

#### DOSAGE

GOAL 2E herbicide is recommended for postemergence control at 2 to 8 pints (0.5 to 2.0 lb. active) per broadcast acre. For preemergence control of susceptible weeds, use 8 pints (2.0 lb. active) per broadcast acre.

**WEEDS CONTROLLED POSTEMERGENCE** (weeds up to 4 inches high) — Apply 2 to 8 pints (0.5 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre. Applications to weeds beyond this 4-inch stage may result in partial control.

CHEESEWEED (MALVA)  
FIDDLENECK, COAST  
\*FILAREE, BROADLEAF  
\*FILAREE, REDSTEM  
\*FILAREE, WHITESTEM  
GROUNDSEL, COMMON  
HENBIT

MINERSLETTUCE  
NETTLE, BURNING  
PIGWEEED, REDROOT  
REDMAIDS  
SHEPHERDSPURGE  
SOWTHISTLE, ANNUAL

\*GOAL 2E herbicide at the 8 pint rate (2.0 lb. active) will provide control of filaree not exceeding the 4-inch stage. Applications to filaree beyond the 4-inch stage may result in partial control.

**WEEDS CONTROLLED PREEMERGENCE** — Apply 4.8 to 8 pints (1.2 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

BURCLOVER  
CHEESEWEED (MALVA)  
FIDDLENECK, COAST  
FILAREE, BROADLEAF  
FILAREE, REDSTEM  
FILAREE, WHITESTEM  
GROUNDSEL, COMMON  
HENBIT  
KNOTWEED, PROSTRATE  
LAMBSQUARTERS, COMMON

LETTUCE, PRICKLY  
PIGWEEED, REDROOT  
PURSLANE, COMMON  
REDMAIDS  
ROCKET, LONDON  
SHEPHERDSPURGE  
SOWTHISTLE, ANNUAL  
SPURGE, PROSTRATE  
SPURGE, SPOTTED

### FLORIDA, LOUISIANA AND TEXAS

#### DOSAGE

GOAL 2E herbicide is recommended for postemergence control at 2 to 8 pints (0.5 to 2.0 lb. active) per broadcast acre. For preemergence control of susceptible weeds, GOAL 2E herbicide is recommended at 8 pints (2.0 lb. active) per broadcast acre.

**WEEDS CONTROLLED POSTEMERGENCE** — Apply 2 to 8 pints (0.5 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre. The lower rate is recommended for the control of susceptible seedling weeds in the early postemergence stage, up to the 4 leaf stage. The higher rate (2.0 lb. active) should be used for weeds up to the 6 leaf stage. Applications to weeds beyond the 6 leaf stage may result in partial control.

BALSAMAPPLE  
\*CUDWEED, NARROWLEAF  
\*\*EVENINGPRIMROSE, CUTLEAF  
GROUNDCHERRY, CUTLEAF  
GROUNDCHERRY, WRIGHT  
LAMBSQUARTERS, COMMON  
MORNINGGLORY, ANNUAL  
NIGHTSHADE, AMERICAN BLACK  
NIGHTSHADE, BLACK

PEPPERWEED, VIRGINIA  
PIGWEEED, REDROOT  
POINSETTIA, WILD  
PURSLANE, COMMON  
PUSLEY, FLORIDA  
SIDA, PRICKLY (TEAWEED)  
SMARTWEED, PENNSYLVANIA  
SOWTHISTLE, ANNUAL

**WEEDS CONTROLLED PREEMERGENCE** — Apply 8 pints (2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

CUDWEED, NARROWLEAF  
\*\*EVENINGPRIMROSE, CUTLEAF  
GROUNDCHERRY, CUTLEAF  
LAMBSQUARTERS, COMMON  
NIGHTSHADE, AMERICAN BLACK  
NIGHTSHADE, BLACK  
PEPPERWEED, VIRGINIA  
PIGWEEED, REDROOT

POINSETTIA, WILD  
PUSLEY, FLORIDA  
SIDA, PRICKLY (TEAWEED)  
SMARTWEED, PENNSYLVANIA  
SOWTHISTLE, ANNUAL  
SPURGE, PROSTRATE  
SPURGE, SPOTTED

\*Maximum 0.5 inch diameter.

\*\*Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 16 pints (4.0 lb. active) per broadcast acre during any 12-month period as a result of multiple applications.

AVAILABLE

**ALL STATES — ARIZONA, CALIFORNIA, FLORIDA,  
LOUISIANA AND TEXAS**

**TIMING AND METHOD OF APPLICATION**

GOAL 2E herbicide should be directed to the soil and the base of trees. Avoid direct spray contact on the citrus foliage. Use a low-pressure sprayer equipped with a breakaway boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired.

**SPRAY VOLUME:**

Weed Stage	Gallons of Water per Acre
Preemergence	40 or more
Postemergence* up to 4 inch or 4 leaf stage	40 or more
Exceeding 4 inch or 4 leaf stage	100 or more

**TANK MIXES WITH GOAL 2E HERBICIDE**

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mix, the most restrictive situations must apply.

**DOSAGE**

For preemergence control of susceptible grassy and broadleaf weeds in citrus plantings, a tank mixture of GOAL 2E herbicide with Devrinol, Simazine, solicam or Surflan can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

For postemergence control of susceptible grassy and broadleaf weeds, a tank mixture of Gramoxone Super or Roundup with GOAL 2E herbicide or combinations of GOAL 2E herbicide plus Devrinol, Simazine, solicam or Surflan can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

**WEEDS CONTROLLED**

In addition to the weeds controlled by GOAL 2E herbicide used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

Devrinol 50-WP	simazine*
Gramoxone Super	Solicam
Roundup	Surflan

\*In addition, provides preemergence control of horseweed (marestail).

**CITRUS (NONBEARING)  
SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe the GENERAL USE RESTRICTIONS listed at the end of this label.

- Apply GOAL 2E herbicide only to nonbearing citrus trees.
- Do not apply more than 8 pints of GOAL 2E herbicide (2.0 lb. active) per broadcast acre in a single application or more than 16 pints (4.0 lb. active) per broadcast acre during any 12-month period as a result of multiple applications.
- GOAL 2E herbicide or any of the combinations recommended on this label should only be applied to healthy growing trees.
- Do not apply during periods of new foliage growth. Applications should be made after foliage has fully expanded and hardened off.
- Direct spray toward the base of trees. Avoid direct spray contact on the citrus foliage.

**CONIFER SEEDBEDS, TRANSPLANTS  
AND CONTAINER STOCK**

**GENERAL INFORMATION**

GOAL 2E is effective as a preemergence and/or postemergence herbicide for the control of certain annual grassy and broadleaf weeds in conifer seedbeds, transplant and conifer stock. The most effective postemergence weed control is achieved when GOAL 2E herbicide is applied to seedling weeds less than 4 inches in height. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Treated soil surfaces should not be disturbed as the herbicidal effectiveness of GOAL 2E may be decreased. Seedling weeds are controlled during emergence as they come in contact with the soil applied herbicide.

**IMPORTANT:** Some varieties or cultivars of conifers may be susceptible to GOAL 2E herbicide. Consult the particular variety to be sprayed with GOAL 2E. It is suggested that unfamiliar species be tested in a field trial for preemergence and postemergence weed control.

**WEEDS CONTROLLED**

When GOAL 2E herbicide is applied preemergence at recommended dosages and weed stages, the following weeds are controlled:

*BARNYARDGRASS	*MORNINGGLORY
BEDSTRAW, CATCHWEED	MUSTARD
BITTERCRESS, LESSER	MUSTARD
*BLUEGRASS, ANNUAL	MUSTARD
BUCKWHEAT, WILD	NETTLE
BURCLOVER	NIGHTSHADE
CARPETWEED	NIGHTSHADE
*CHICKWEED, COMMON	OATS
*CHICKWEED, STICKY	ORACH
*CLOVER, RED	PEPPER
*CLOVER, WHITE	PIGWEE
COCKLEBUR, COMMON	PIGWEE
*CRABGRASS, LARGE	PIMPEL
*FIDDLENECK, COAST	PURSLUE
FILAREE, BROADLEAF	REDMA
FILAREE, REDSTEM	ROCKET
FIREWEED (FROM SEED)	SANDSPRING
FLUXWEED	*SHEPHERD
*FOXTAIL, GIANT	SIDA, PI
*GOOSEGRASS	SMARTWEED
GROUNDCHERRY, CUTLEAF	SORREL
GROUNDCHERRY, WRIGHT	SOWTHIST
GROUNDSEL, COMMON	SPEEDWELL
HENBIT	**SPURGE
JIMSONWEED	**SPURGE
KNOTWEED, PROSTRATE	SPURRY
LADYSTHUMB	TANSY
LAMBSQUARTERS, COMMON	**THISTLE
LETTUCE, PRICKLY	THISTLE
MALLOW, LITTLE	VELVET
MAYWEED	WITCHGRASS
MINERSLETTUCE	**WOODSOCK
*MORNINGGLORY, IVYLEAF	

\*Highest rate and/or multiple applications may control.

\*\*Preemergence control only.

GOAL 2E herbicide is most effective when applied to grasses. Postemergence applications should be made to weeds not exceeding the 2-leaf stage. The addition of 0.25% (v/v solution) of TRITON AG-98 or comparable 80% cleared for application on growing crops, enhances activity on emerged weeds.

**CONIFER SEEDBEDS**

To assist in the establishment of conifer seedbeds, applications should be made after seeding but prior to conifer emergence. Applications should not be made until a minimum of 2 weeks after seeding. Additional care should be taken to ensure that seedlings are not damaged during emergence to make certain that seedlings are not damaged by spraying.

Conifers are tolerant to preemergence and postemergence applications of GOAL 2E herbicide. After postemergence, GOAL 2E herbicide provides preemergence and residual preemergence control of annual grass species.

**CONIFER SPECIES**

GOAL 2E herbicide may be applied to conifer seedbeds including the following:

DOUGLAS-FIR	<i>Pseudotsuga</i>
FIR	
FRASER	<i>Abies fraseri</i>
GRAND	<i>Abies grandis</i>
NOBLE	<i>Abies procera</i>
HEMLOCK	
EASTERN HEMLOCK	<i>Tsuga canadensis</i>

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PINE  
 AUSTRIAN  
 EASTERN WHITE  
 HIMALAYAN  
 JACK  
 LOBLOLLY  
 LODGEPOLE  
 LONGLEAF  
 MONTEREY  
 MUGHO  
 PONDEROSA  
 SCOTCH  
 SHORTLEAF  
 SLASH  
 VIRGINIA  
 SPRUCE  
 BLUE  
 DWARF ALBERTA  
 NORWAY  
 SITKA

*Pinus nigra*  
*Pinus strobus*  
*Pinus mitchiana*  
*Pinus banksiana*  
*Pinus taeda*  
*Pinus contorta*  
*Pinus palustris*  
*Pinus radiata*  
*Pinus mugo*  
*Pinus ponderosa*  
*Pinus sylvestris*  
*Pinus echinata*  
*Pinus elliotii*  
*Pinus virginiana*  
  
*Picea pungens*  
*Picea glauca Conica*  
*Picea abies*  
*Picea sitchensis*

**PREEMERGENCE DOSAGE**

Apply 1 to 4 pints (0.25 to 1.0 lb. active) of GOAL 2E herbicide per broadcast acre as a preemergence application. Where grassy weeds are present, a minimum rate of 2 pints (0.5 lb. active) of GOAL 2E herbicide per broadcast acre is suggested. In known areas of high weed competition, 4 pints (1.0 lb. active) of GOAL 2E herbicide per broadcast acre are recommended.

**TIMING AND METHOD OF APPLICATION**

Apply recommended dosage after seeding but prior to conifer emergence. GOAL 2E herbicide should be thoroughly mixed with clean water at recommended concentration and applied at 20 to 40 psi in a minimum of 20 gallons of water per treated acre. Broadcast to beds and irrigate prior to weed emergence with 1/2 to 3/4 inch of sprinkler irrigation.

**POSTEMERGENCE DOSAGE**

Apply 1 to 2 pints (0.25 to 0.5 lb. active) of GOAL 2E herbicide per broadcast acre with each postemergence application. Two or three postemergence applications may be necessary for season-long weed control.

**TIMING AND METHOD OF APPLICATION**

Apply recommended dosage to seedbeds no sooner than 5 weeks after emergence of conifer seedlings. Additional care should be taken if cool, cloudy weather occurs during emergence to make certain that seedlings have hardened off prior to spraying. Application should be made to seedling weeds (less than 4 inches in height). GOAL 2E herbicide should be thoroughly mixed with clean water at recommended concentration and applied as a broadcast application at 20 to 40 psi in a minimum of 20 gallons of water per treated acre.

**CONIFER TRANSPLANTS AND CONTAINER STOCK (INCLUDES 2-0 SEEDLING AND CHRISTMAS TREE PLANTINGS)**

Many container-grown conifers and conifer transplants are tolerant to preemergence and postemergence applications of GOAL 2E herbicide. Applied post-emergence, GOAL 2E herbicide will provide both postemergence and preemergence control of many broadleaf weeds and grasses. Postemergence applications should be applied before bud break or after foliage has had an opportunity to harden off. Conifers may be transplanted from seedbeds and sprayed directly providing bud break has not occurred.

The following conifer species in addition to species listed under the CONIFER SEEDBED section have been shown to be tolerant to GOAL 2E herbicide.

ARBORVITAE  
*Thuja occidentalis*  
*Thuja orientalis*  
 JUNIPER  
*Juniperus chinensis*  
*Juniperus horizontalis*  
*Juniperus procumbens*  
*Juniperus sabina*  
*Juniperus scopulorum*

RED CEDAR  
*Juniperus virginiana*  
 WESTERN HEMLOCK  
*Tsuga heterophylla*  
 YEW  
*Taxus species*

**DOSEAGE**

For preemergence or postemergence weed control apply 4 to 8 pints (1.0 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

**TIMING AND METHOD OF APPLICATION**

For optimum weed control, preemergence applications should be made immediately after transplanting seedlings or to weed-free container stock. Postemergence applications should be made to weeds less than 4 inches in height. Two applications may be necessary, in fall-transplanted conifer fields, for season-long weed control. The addition of 0.25% (2 pints/100 gals. of spray solution) of TRITON AG-98 or comparable 80% active nonionic surfactant, cleared for application to growing crops, enhances GOAL 2E herbicide activity on emerged weeds. GOAL 2E herbicide must be applied only to conifer transplants prior to bud break or after foliage has had an opportunity to harden off. Thoroughly mix with clean water at recommended concentration and apply at 20 to 40 psi in a minimum of 20 gallons of water per treated acre. Spray over the top of transplants. Heavy rainfall immediately following application to emerged weeds may reduce effectiveness.

**POAST® HERBICIDE TANK MIX IN CONIFER PLANTATIONS**

FOR USE ONLY IN THE STATES OF ALABAMA, GEORGIA, KENTUCKY, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA AND WEST VIRGINIA

**GENERAL INFORMATION**

GOAL 2E is effective as a preemergence and/or postemergence herbicide for the control of certain annual grassy and broadleaf weeds in conifer plantations.

The tank mix of GOAL 2E herbicide with Poast will provide additional control of certain annual and perennial grass weeds (see Poast label for weeds).

The following plants are tolerant to a tank mix of GOAL 2E herbicide plus Poast:

COMMON NAME	SCIENTIFIC NAME
FIR, FRASER	<i>Abies Fraseri</i>
*HEMLOCK, CANADA	<i>Tsuga canadensis</i>
PINE, VIRGINIA	<i>Pinus virginiana</i>
PINE, WHITE	<i>Pinus strobus</i>
SPRUCE, NORWAY	<i>Picea abies</i>

\*Canada Hemlock has a prolonged period of bud break and new growth, thus, directed applications are recommended during this period.

Broadleaf weeds controlled: See GOAL 2E herbicide label.

Grasses controlled: See Poast herbicide label.

GOAL 2E herbicide and Poast rates: A maximum of 8 pints per acre per season of GOAL 2E herbicide may be tank mixed with Poast. A maximum of 2.5 pints of Poast may be tank mixed with GOAL 2E herbicide.

See GOAL 2E herbicide label for minimum recommended rates of GOAL 2E herbicide and see Poast label for minimum recommended rates of Poast. Two or three applications may be needed for season-long control. In some cases, reduced grass control with Poast may be experienced when tank mixed with GOAL 2E herbicide.

**TIMING**

Applications should be made when weeds are actively growing but before conifer bud break or after conifer foliage has had an opportunity to harden off. Broadleaf weeds must be within the height limitations indicated on the GOAL 2E herbicide label.

**METHOD OF APPLICATION**

Fill the spray tank at least one-third full of clean water and add the recommended amounts of GOAL 2E herbicide and Poast while the pump and agitator are running. Complete filling of the spray tank with water. Apply at 20 to 40 psi in a minimum of 20 gallons of water per treated acre. Heavy rainfall immediately following application to emerged weeds may reduce effectiveness.

IMPORTANT: When tank mixing, always read all individual manufacturers' labels. In interpreting all labels, use the tank mix, i.e., the most restrictive situations must apply.

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### CONIFER — SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- NOT FOR CONIFER RELEASE IN FOREST MANAGEMENT PROGRAMS OR FOR FOREST REGENERATION APPLICATIONS.
- Do not apply GOAL 2E herbicide in an enclosed greenhouse structure as injury to plant foliage may result.
- Do not store or transport treated container stock in an enclosed structure until completion of 4 irrigations (minimum 21 days) as injury to non-labeled plants may occur.
- Always apply GOAL 2E herbicide only to healthy conifer stock. Do not apply GOAL 2E herbicide to conifers that are under stress from excessive fertilizer or soil salts, disease, nematodes, frost, drought, flooding, previously applied pesticides, soil insects, or winter injury, as severe injury may result.

### CORN

#### FOR USE ONLY AS A DIRECTED SPRAY ON FIELD CORN IN CONJUNCTION WITH THE USDA WITCHWEED ERADICATION PROGRAM IN NORTH CAROLINA AND SOUTH CAROLINA

#### GENERAL INFORMATION

GOAL 2E is a selective herbicide for the control of witchweed (*Striga asiatica*), and works both preemergence and postemergence against witchweed.

#### DOSAGE

Use 2 to 3 pints of GOAL 2E herbicide (0.5 to 0.75 lb. active) per acre for the first application. The 2 pint rate (0.5 lb. active) per acre should be the standard use rate, with the 3 pint rate (0.75 lb. active) per acre for isolated infestations. Repeat treatments should be made at rates of 1 to 2 pints (0.25 to 0.5 lb. active) per acre. Applications should be made in 10 to 30 gallons of water per acre. Use TRITON AG-98 spreader in the spray mixture at the rate of 0.25% by water volume or 1 quart in 100 gallons of spray mix.

#### TIMING AND METHOD OF APPLICATION

Fields in the witchweed infested area selected for treatment with GOAL 2E herbicide should be examined during the early part of the growing season to determine uniformity of corn stand and grassy weed pressure. Weedy fields should be cultivated prior to the initial application so as to obtain the best possible soil coverage in the first spray application. Apply during May-August to emerged witchweed before bloom or as soon as possible after bloom appears, to avoid seed set. Corn should have a minimum height of 24 inches at the first application. After this application has been made, the fields should be inspected regularly for any breakthrough of the witchweed. If breakthrough occurs, then a second spray should be applied like the first. This application will be made postemergence to the witchweed, preferably before bloom or as soon as possible past the first appearance of witchweed bloom, to avoid seed set.

In all applications direct the GOAL 2E herbicide spray at the base of the corn plant and uniformly over the entire row surface. Do not spray over the top of the corn, as this may result in severe corn injury. Spray droplets contacting the lower leaves will cause necrotic spotting or streaking of sprayed tissue. Spray should contact only the lower 3 to 8 inches of the corn stalk and any leaves in this zone.

### CORN — SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 5 pints of GOAL 1.6E herbicide (1.25 lb. active) per acre to a corn crop during the growing season.
- Do not apply any application within 30 days of harvest.
- Do not use corn plants from a treated field for green chop, ensilage, forage or fodder.

### COTTON

#### POST-DIRECTED SPRAY

#### GENERAL INFORMATION

GOAL 2E is a selective herbicide for use broadleaf weed control in cotton. Cotton leaves exhibit necrotic spotting and may drop from exercised to avoid spray contact with the cot. enhanced if applications are made when exc rainfall occurs following application. Cotton continues to develop normally.

#### DOSAGE

GOAL 2E herbicide is recommended as a 2 pints (0.25 to 0.5 lb. active) per acre. Opt pints of GOAL 2E herbicide (0.5 lb. active) seedlings not exceeding 4 true leaves. Eff. seedlings in the 2 to 3 leaf stage can usually 2E herbicide (0.25 lb. active) per acre are at surfactant recommendation. Weeds should b actively growing. Do not count cotyledon lea

#### WEEDS CONTROLLED POSTEMERGENCE

When GOAL 2E herbicide is applied as a recommended weed stage and dosage in controlled:

COCKLEBUR, COMMON	NG
CROTON, TROPIC	PIG
GROUNDCHERRY, CUTLEAF	*POI
GROUNDCHERRY, WRIGHT	PLIF
JIMSONWEED	SES
LAMBSQUARTERS, COMMON	**SIC
MORNINGGLORY, ANNUAL	*SID
(UP TO 6 LEAF)	SM
NIGHTSHADE, AMERICAN BLACK	VEL
NIGHTSHADE, BLACK	

\*Multiple applications may be required for a  
\*\*Post-direct applications of GOAL 2E herbic not exceeding the one true leaf stage.

#### TIMING

#### SOUTHERN COTTON

ALABAMA, ARKANSAS, GEORGIA, MISSISSIPPI, MISSOURI, NEW MEXICO, OKLAHOMA, SOUTH CAROLINA, TEXAS

Cotton plant height must be a minimum 6 inches plants less than 6 inches tall may result in recommended. In cotton 6 to 8 inches tall, GO using rigid precision ground sprayer equipm recommended to avoid spray contact with cot shields if excessive spray contact on larger co cannot be avoided by the directed spray.

#### WESTERN COTTON

#### ARIZONA AND CALIFORNIA

Cotton plant height must be a minimum 6 inches plants less than 6 inches tall may result in recommended. In cotton 6 to 8 inches tall, GO using rigid precision ground sprayer equipm recommended to avoid spray contact with cot shields if excessive spray contact on larger co cannot be avoided by the directed spray.

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To obtain the maximum benefit of postemergence activity, encourage weed emergence by irrigating prior to spraying. Irrigate immediately following herbicide application to obtain greatest benefit of preemergence activity from GOAL 2E herbicide on nightshade and groundcherry species.

**EXERCISE EXTREME CARE TO AVOID HERBICIDE CONTACT WITH ANY DESIRABLE DORMANT OR SEMI-DORMANT CROP, PLANT, TREE OR VEGETATION, AS SEVERE INJURY MAY RESULT.**

Cotton can be planted 14 days or more following a GOAL 2E herbicide fallow bed application.

### METHOD OF APPLICATION

#### SOUTHERN AND WESTERN COTTON

Accurate, uniform placement of GOAL 2E herbicide spray is essential for effective weed control and to minimize cotton injury. As a directed postemergence application, GOAL 2E herbicide should be applied at 20 to 25 psi using 20 to 40 gallons of spray on a broadcast acre basis. Do not exceed 25 psi. Spray should be directed towards the base of the cotton plant. Cotton foliage receiving accidental spray or drift may be injured. Weeds should be in the seedling stage, young and actively growing.

GOAL 2E herbicide can be applied using a post-direct spray rig with only 2 flat fan nozzles per row, 1 nozzle on each side of the row. Additional care should be taken when adjusting sprayer prior to application. For best coverage, it is suggested to use 4 flat fan nozzles per row, 2 nozzles on each side of the row. The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer system, nozzles should be adjusted to cover the weed foliage with minimum contact to the cotton plant. Do not use cone nozzles.

#### TANK MIXES WITH GOAL 2E HERBICIDE

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for tank mixtures, the most restrictive situations must apply.

#### DOSAGE

For postemergence control of susceptible grassy and broadleaf weeds in cotton, a tank mixture of GOAL 2E herbicide with Bladex®, Caporal®, Caporal plus, Cotoran®, Cotoran plus, dinitro, Karmex®, Lorox®, MSMA or Probe can be applied as a post-directed application. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

#### RATE OF PRODUCT PER BROADCAST ACRE

PRODUCT	RATE PER ACRE
Bladex 4L	1.2 to 2 pts.
Caporal 4L	1 to 1.3 pts.
Caporal PLUS	4 pts.
Cotoran 80W	1 to 2.5 lbs.
Cotoran PLUS	4 pts.
Karmex 80W	0.25 to 0.5 lb.
Lorox 4L	1 to 1.5 pts.
MSMA 6.6	2.4 pts.
Probe	0.66 to 2.0 lbs.

#### COTTON — SOUTHERN AND WESTERN SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- **SOUTHERN COTTON:** Do not apply more than 2 pints (0.5 lb. active) per broadcast acre of GOAL 2E herbicide per season as a result of a single application or multiple applications.
- **WESTERN COTTON:** Do not apply more than 2 pints (0.5 lb. active) of GOAL 2E herbicide per broadcast acre in a single application, or more than a total of 4 pints (1.0 lb. active) of GOAL 2E herbicide per broadcast acre per season as a result of multiple applications.
- Do not spray GOAL 2E herbicide after initiation of bloom.

#### COTTON FALLOW BED AIR APPLICATION

**FOR USE ONLY IN ARIZONA AND CALIFORNIA TREATMENTS MUST BE MADE OCTOBER 1 THROUGH MARCH 31.**

#### GENERAL INFORMATION

GOAL 2E herbicide is effective as a preemergence herbicide when used alone or as a postemergence herbicide when applied in a tank mix combination with Roundup or Gramoxone Super for the control of winter annual broadleaf weeds in fallow beds. Do not apply within 14 days of planting. The fallow bed should be worked with a Lullston, or similar incorporation tool, to a depth of at least 2 inches prior to planting. It is important to thoroughly break the soil surface prior to planting; weed control should not be expected following breaking of the soil surface.

#### GOAL 2E HERBICIDE USED ALONE

##### DOSAGE

GOAL 2E herbicide, may be applied at 1 to 2 pints (0.25 to 0.5 lb. active) per broadcast acre. The lower rate (1 pint per acre) should provide up to 4 weeks of preemergence control of susceptible weeds and provide postemergence activity on susceptible weeds (up to 4 leaf stage). The higher rate (2 pints per acre) should provide preemergence control of susceptible weeds for up to 8 weeks and postemergence activity on susceptible weeds up to the 6 leaf stage. Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks following application.

##### WEEDS CONTROLLED

GOAL 2E herbicide will provide preemergence and postemergence\* control of the following weeds when used at recommended dosages and weed stage.

CHEESEWEED (MALVA)	MUSTARD, BLACK
FIDDLENECK, COAST	NETTLE, BURNING
FILAREE, BROADLEAF	REDMAIDS
FILAREE, REDSTEM	ROCKET, LONDON
GROUNDSEL, COMMON	SHEPHERDSPURSE
HENBIT	SOWTHISTLE, ANNUAL
MINERSLETTUCE	

\*Thorough spray coverage is essential to maximize the postemergence activity of GOAL 2E herbicide. For postemergence control, a tank mixture of GOAL 2E herbicide with Roundup or Gramoxone Super is recommended.

##### AERIAL APPLICATION

GOAL 2E herbicide should be applied using swirl jet or hollow cone nozzles and a spray pressure less than 40 psi to deliver a minimum spray volume of 10 gallons of water per acre (minimum 5 gallons for GOAL 2E/Roundup tank mix). Application should be made at a height of 6 to 10 feet above the soil surface. It is suggested that the nozzles on the spray booms should not be placed any closer to the wing or rotor tips than 3/4 of the span; this will minimize the formation of spray or wing tip vortex roll. Nozzles should be spaced and positioned to produce a uniform spray pattern and to minimize or eliminate the formation of droplets 100 microns or less in diameter.

##### AVOID DRIFT

**WHEN APPLYING TO FALLOW BEDS, EXTREME CARE MUST BE EXERCISED TO PREVENT SPRAY DRIFT WHICH COULD RESULT IN DAMAGE TO OTHER CROPS OR DESIRABLE VEGETATION. USE THE FOLLOWING GUIDELINES WHEN AERIAL APPLICATIONS ARE TO BE MADE:**

1. Do not apply when the wind direction is not stable, when inversion conditions exist, or when wind velocity exceeds 10 mph.
2. When wind speeds are 5 mph or less, maintain a minimum downwind buffer zone of at least 1/2 mile from all crops and desirable vegetation, except the following:  
Maintain a minimum downwind buffer zone of:
  - 150 feet from dormant treefruit, dormant vines and overwintering sugarbeets.
  - 650 feet from garlic, jojoba, legumes, onions, pastures, small grains, seedling sugarbeets, and vegetable fallow beds.
3. When wind speeds are between 5 to 10 mph, downwind buffer zones in excess of those listed above are suggested.
4. For upwind and side borders, maintain a minimum buffer zone of 150 feet from any vegetable fallow bed, crop, or desirable vegetation.

The use of a drift control agent may be required by local regulations. However, the drift control agent may decrease the weed control activity.

##### IMPORTANT

Aerial applicators must be familiar with the EPA-registered label and follow the use precautions. Spraying GOAL 2E herbicide in a manner other than as recommended is done at the user's risk. Users are responsible for all loss or damage that results from such spraying. In addition, aerial applicators should follow all applicable state and local regulations and ordinances. In interpreting the label and local regulations, the most restrictive situations should apply to avoid drift hazards.

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## DOSAGE

GOAL 2E herbicide can be tank mixed with Roundup or Gramoxone Super to obtain postemergence control of annual grassy weeds, volunteer grains and broadleaf weeds.

## GOAL 2E/ROUNDUP TANK MIX

Tank mix 1 to 2 pints (0.25 to 0.5 lb. active) of GOAL 2E herbicide with 0.75 to 1.0 pint (0.38 to 0.5 lb. active) of Roundup for each acre treated. Apply in a minimum of 5 gallons of water per acre at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

## GOAL 2E/GRAMOXONE SUPER TANK MIX

Tank mix 1 to 2 pints (0.25 to 0.5 lb. active) of GOAL 2E herbicide with 1.5 to 5 pints (0.28 to .93 lb. active) of Gramoxone Super for each acre treated. Apply in a minimum of 10 gallons of water per acre at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

## COTTON FALLOW BED AIR APPLICATION

### SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- DO NOT AERIALY APPLY GOAL 2E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO FALLOW BEDS BEFORE OCTOBER 1 OR AFTER MARCH 31.
- Do not apply more than 2 pints (0.5 lb. active) of GOAL 2E herbicide per acre, per fallow season.
- Do not apply GOAL 2E herbicide within 14 days of planting.

## COTTON FALLOW BED GROUND APPLICATION

### GENERAL INFORMATION

GOAL 2E is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with Roundup or Gramoxone Super for the control of winter annual broadleaf weeds in fallow beds. Do not apply within 14 days of planting. The fallow bed should be worked with a Lullston, or similar incorporation tool, to a depth of at least 2 inches prior to planting. It is important to thoroughly break the soil surface prior to planting; weed control should not be expected following breaking of the soil surface.

Cotton can be planted 14 days or more following a GOAL 2E herbicide fallow bed application.

## GOAL 2E HERBICIDE USED ALONE

### DOSAGE

GOAL 2E herbicide should be used at 1 to 2 pints (0.25 to 0.5 lb. active) per broadcast acre. The lower rate (1 pint per acre) should provide postemergence control of susceptible weeds (up to 4 leaf stage) and provide up to 4 weeks of preemergence control of susceptible weeds. The higher rate (2 pints per acre) should provide postemergence control of susceptible weeds (up to 6 leaf stage) and preemergence control of susceptible weeds for up to 8 weeks. Best preemergence control is achieved when pre-irrigation or rainfall occurs within 3 or 4 weeks following application.

### WEEDS CONTROLLED

GOAL 2E herbicide will provide preemergence and postemergence control of the following weeds when used at recommended dosages and weed stage.

CHEESEWEED (MALVA)  
FIDDLENECK, COAST  
FILAREE, BROADLEAF  
FILAREE, REDSTEM  
GROUNSEL, COMMON  
HENBIT

MINERSLETTUCE  
MUSTARD, BLACK  
NETTLE, BURNING  
REDMAIDS  
ROCKET, LONDON  
SOWTHISTLE, ANNUAL

GOAL 2E is a contact herbicide, therefore, coverage is essential for acceptable postemergence control. If dense weed populations, oversized weed seedlings, volunteer grains, annual grasses or unfavorable environmental conditions exist, a tank mixture of GOAL 2E herbicide with Gramoxone Super or Roundup for postemergence control is recommended.

GOAL 2E herbicide should be applied in a w  
acre. The volume of water used should be inc  
and more dense. Use a low pressure spray  
Spray equipment should be calibrated caref

## TANK MIXES WITH GOAL 2E HE

**IMPORTANT:** Read and observe all label  
mixing, always read all individual manufac  
labels for the tank mix, the most restrictive

### DOSAGE

GOAL 2E herbicide can be tank mixed with  
obtain postemergence control of annual gra  
(0.25 to 0.5 lb. active) of GOAL 2E herbicide  
active) of Gramoxone Super or 0.75 to 1.0 pint  
for each acre treated. Refer to the "Preplant  
the Gramoxone Super label or the FALLOW  
section on the Roundup label for specific use  
at the recommended rates and growth stages  
manner described on the respective labels.

## COTTON FALLOW BED GROUND SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENE  
the end of this label.

- Do not apply more than 2 pints (0.5 lb. active) per fallow season.
- Do not apply GOAL 2E herbicide within 14 d

## FALLOW LAND

## FOR USE ONLY IN IDAHO, OREGON WASHINGTON

### GENERAL INFORMATION

GOAL 2E herbicide is effective as a preeme  
herbicide when used alone or in a tank mix co  
control of certain annual broadleaf weeds in  
herbicide can be used as an effective tool to r  
establishment of a dry soil mixch. Use of this  
fallow land that will be planted back the follow  
or oats.

## GOAL 2E HERBICIDE USED ALON

### DOSAGE

GOAL 2E herbicide should be used at 0.5 to 2 p  
broadcast acre.

### WEEDS CONTROLLED

GOAL 2E herbicide will provide postemergenc  
activity of the following broadleaf weeds when u

FIDDLENECK, COAST	MUSTARD
HENBIT	(HIM)
LETTUCE, PRICKLY	PIGWEE
(CHINA LETTUCE)	PURSLA
MUSTARD, BLUE	SHEPHE
(PURPLE MUSTARD)	SOWTHI

### TIMING AND METHOD OF APPLIC

The most effective post-emergence weed contro  
herbicide is applied to seedling weeds (less than  
weeds are controlled) as they come in contact w  
during emergence.

GOAL 2E herbicide should be applied in 20 to  
depending upon density of emerged weeds. Use a  
with flat fan nozzles. Spray equipment shou  
before each use.

## TANK MIXES WITH GOAL 2E HERBI

### DOSAGE

For postemergence control of annual grassy weed  
tank mixed with Roundup. Tank mix 0.5 to 2 pi  
GOAL 2E herbicide with 0.75 to 1 pint (0.38 to 0  
each acre treated. Refer to the "Fallow and Reduce  
the Roundup label for specific use directions and

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### SOYBEANS

#### NOT FOR USE IN CALIFOR

#### GENERAL INFORMATION

GOAL 2E is effective as a preemerg herbicide for the control of broadleas made early preplant in conservation (double-crop) and conventional soyb soybeans. Seeding weeds are contr herbicide either during emergence Follow specific use directions and rest of applications.

Soybeans are tolerant to preemerg recommended dosages of GOAL 2E. In tions, GOAL 2E herbicide can cause shortly after crop emergence or cold, stages can produce leaf cupping or generally limited to the first few leav emerge from the soil. Soybeans rece adversely affected. Soybean leaves t post-directed application will exhibit ne plant. Therefore, care must be exercis leaves.

#### DOSAGE AND TIMING

#### CONSERVATION TILLAGE

#### SOYBEANS EARLY PREPLA

GOAL 2E herbicide is effective for preer susceptible broadleaf weeds when sar to 0.75 lb. active) per broadcast acre t of conservation tillage soybeans. It is approximately 14 days prior to plantin to 0.75 lb. active) will assist in early seas 2E herbicide must not be a basic part planned program utilizing herbicides r gence or postemergence grass control.

The use of ridge or slot planters or oth minimal soil disturbance is recommende as the herbicidal effectiveness of GOAL are controlled as they come in contact emergence. Timely cultivations will usuc

#### NO-TILL (DOUBLE-CROP) SO

#### PREEMERGENCE

GOAL 2E herbicide is effective for preem of susceptible broadleaf weeds when app active) per broadcast acre.

For postemergence control of certain gras either Gramoxone Super or Roundup with

For residual grass control in no-till soybee Lasso, or Sorflan with GOAL 2E herbi herbicide plus Gramoxone Super or Round directions and restrictions for these comb

Application should be made within one c may result in severe crop injury and are r

#### WEEDS CONTROLLED PREEME

GOAL 2E herbicide used alone, at recomm gence control of the following broadleaf we

- \*GROUNDCHERRY, CUTLEAF POI
- \*JIMSONWEED SHI
- \*LAMBSQUARTERS, COMMON SID
- \*NIGHTSHADE, AMERICAN BLACK SM
- \*NIGHTSHADE, BLACK \*SOA
- PIGWEEED, REDROOT VEL

\*Suppression of this weed occurs when G reduce\* rate recommended for the combination

to spray tank at least one-third full of clean water and add the re pended pints of GOAL 2E herbicide and Roundup while the pump and air are running. Complete filling of the spray tank with water. Add 1 quart of TRITON AG-98 or comparable 80% active nonionic surfactant cleared for use on growing crops, per 100 gallons of spray. Maintain agitation until spraying is complete.

#### FALLOW LAND — SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

• When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

### MINT SPEARMINT/PEPPERMINT

#### FOR USE ONLY IN IDAHO, OREGON AND WASHINGTON

#### GENERAL INFORMATION

GOAL 2E is a selective herbicide for the control of certain annual grasses and broadleaf weeds in spearmint and peppermint grown in Idaho, Oregon and Washing... Applications should only be made to spearmint and peppermint that are dormant.

#### METHOD OF APPLICATION

Application must be made prior to new spring growth or severe crop dry may result. GOAL 2E herbicide should be thoroughly mixed with clean water at recommended concentration and applied at 20 to 40 psi in 20 to 40 gallons of water per acre.

#### WEEDS CONTROLLED

When GOAL 2E herbicide is applied as a dormant application at recommended dosages in spearmint and peppermint, the following annual weeds are controlled:

- BEDSTRAW, CATCHWEED
- \*BLUEGRASS, ANNUAL
- FLIXWEED
- GROUNDSEL, COMMON
- LAMBSQUARTERS, COMMON
- LETTUCE, PRICKLY (CHINA LETTUCE)
- MUSTARD, BLUE (PURPLE MUSTARD)
- MUSTARD, TUMBLE (JIM HILL MUSTARD)
- NIGHTSHADE, HAIRY
- \*OATS, WILD
- ORACH, RED
- PEPPERWEED, YELLOWFLOWER
- PIGWEEED, REDROOT
- \*RYEGRASS, ITALIAN
- SHEPHERDSPURSE
- SOWTHISTLE, ANNUAL
- TANSYMUSTARD
- THISTLE, RUSSIAN

\*Control of annual grasses is best obtained when GOAL 2E herbicide is applied prior to emergence. Postemergence control of winter annual grasses is generally unsatisfactory if applications are made after the 1 to 2 leaf stage.

#### WESTERN OREGON

#### PEPPERMINT

Apply 3 to 6 pints (0.75 to 1.5 lb. active) of GOAL 2E herbicide from November through February to dormant peppermint only. Treatments in January or February generally provide better residual preemergence control of annual broadleaf weeds.

#### OREGON AND WASHINGTON (EAST OF CASCADES)

#### AND WESTERN IDAHO

#### SPEARMINT AND PEPPERMINT

Apply 4 to 8 pints (1 to 2 lb. active) of GOAL 2E herbicide from December through March to dormant mint only. Later winter applications will provide maximum activity on summer weeds. Summer grass control may be inconsistent. For best results, fall-plowed fields should be harrowed to provide a smooth surface prior to application. Plowed fields should not be harrowed after GOAL 2E herbicide has been applied, as soil disturbance will decrease the herbicidal effectiveness. In furrow-irrigated fields, corrugating must be done prior to application. Corrugating after application can cover treated rows with untreated soil, resulting in poor weed control.

#### MINT (SPEARMINT AND PEPPERMINT)

#### SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

• Apply GOAL 2E herbicide only to healthy spearmint and peppermint. Do not apply to spearmint or peppermint that has been weakened by disease, nematodes, soil insects, or winter injury, as severe injury may result.

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**WEEDS CONTROLLED POSTEMERGENCE  
(POST-DIRECTED APPLICATION)**

When GOAL 2E herbicide is applied as a post-direct application at the recommended weed stage and dosage in soybeans, the following weeds are controlled:

- |                            |                          |
|----------------------------|--------------------------|
| COCKLEBUR, COMMON          | NIGHTSHADE, HAIRY        |
| CROTON, TROPIC             | PIGWEEED, REDROOT        |
| GROUNDCHERRY, CUTLEAF      | *POINSETTIA, WILD        |
| GROUNDCHERRY, WRIGHT       | PURSLANE, COMMON         |
| JIMSONWEED                 | SESBANIA, HEMP           |
| LAMBSQUARTERS, COMMON      | SHEPHERDSPURSE           |
| MORNINGGLORY, ANNUAL       | **SICKLEPOD              |
| (UP TO 6 LEAF)             | *SIDA, PRICKLY (TEAWEED) |
| MUSTARD, WILD              | SMARTWEED, PENNSYLVANIA  |
| NIGHTSHADE, AMERICAN BLACK | VELVETLEAF               |
| NIGHTSHADE, BLACK          |                          |

\*Multiple applications may be required for acceptable control.  
\*\*Post-direct applications of GOAL 2E herbicide will kill or suppress seedlings not exceeding the one true leaf stage.

Two pints of TRITON AG-98, or comparable 80% active nonionic surfactant cleared for application to growing crops, per each 100 gallons of spray solution are suggested in all tank mixtures containing GOAL 2E herbicide when postemergence weed control is desired.

**TANK MIXES WITH GOAL 2E HERBICIDE**

GOAL 2E herbicide when applied at 0.6 to 0.8 pint (0.16 to 0.2 lb. active) per acre as a tank mix combination with metribuzin (Sencor® DF or Lexone® Di) at 0.33 lb. product (0.25 lb. active) per acre, is effective for preemergence control of susceptible broadleaf weeds. Do not apply this tank mix to sandy soils or coarse soils (sandy loam or loamy sand) containing less than 2% organic matter. Do not use on soils with less than 1/2% organic matter, or on alkaline soils with a pH above 7.4 as crop injury may occur. Application should be made within one day following planting. Later applications may result in severe crop injury and are not recommended. The GOAL 2E/metribuzin herbicide tank mix may be applied as a preemergence application following a preplant incorporated grass herbicide treatment or as a three-way tank mix in a preemergence application with either Dual, Lasso or Surflan.

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

**DOSAGE**

Refer to the following tables for labeled use rates.

**NO-TILL (DOUBLE-CROPPED) SOYBEANS**

**PREEMERGENCE**

RATE OF PRODUCT PER BROADCAST ACRE (PINTS PER ACRE)

Soil Texture	GOAL 2E	Dual 8E*	Lasso 4E*	Surflan A.S.**	Gramoxone		
					Super	Roundup	Bronco*
Coarse	0.5 to 1.5	1.5	4.0 to 5.0	1.5	1.0 to 2.0	2.0 to 3.0	6.5 to 10.0
Medium	0.5 to 2.0	2.0	5.0 to 6.0	2.0	1.0 to 2.0	2.0 to 3.0	8.0 to 10.0
Fine	0.5 to 2.0	2.0 to 2.5	5.0 to 6.0	3.0	1.0 to 2.0	2.0 to 3.0	8.0 to 10.0
Muck or Peat	***	***	***	***	***	***	***

\*Use the higher rate of Bronco, Dual or Lasso on soils containing more than 3% organic matter.  
\*\*When using Surflan 75 WP, multiply pints by 0.67 to obtain the amount of Surflan 75 WP product required. Do not use Surflan on soils containing more than 5% organic matter.  
\*\*\*Do not use.

**CONVENTIONAL TILLED SOYBEANS**

**PREEMERGENCE**

GOAL 2E herbicide is effective for preemergence control of susceptible broadleaf weeds when applied at 1 to 1.5 pints (0.25 to 0.38 lb. active) per broadcast acre. Application should be made within one day of planting. Later applications may result in severe crop injury and are not recommended. The higher rate (0.38 lb. active) will assist in early season annual grass control. However, GOAL 2E herbicide must not be a basic portion of the grass herbicide program. GOAL 2E herbicide may be applied alone as a preemergence application following a preplant incorporated grass herbicide treatment or as a tank mix in a preemergence application with Dual, Lasso or Surflan.

**CONVENTIONAL TILLED SOYBEANS  
PREEMERGENCE**

RATE OF PRODUCT PER BROADCAST ACRE (PINTS PER ACRE)

Soil Texture	GOAL 2E	Dual 8E*	Lasso 4E*	Surflan A.S.**	Metribuzin DF***
					(lbs. PER ACRE)
Coarse	0.6 to 1.5	1.25 to 1.5	3.0 to 4.0	1.0 to 1.5	0.33
Medium	0.6 to 1.5	1.5 to 2.0	4.0 to 6.0	1.5 to 2.0	0.33
Fine	0.6 to 1.5	2.0 to 2.5	4.0 to 6.0	2.0 to 2.5	0.33
Muck or Peat	***	***	***	***	***

\*Use the higher rate of Bronco, Dual or Lasso on soils containing more than 3% organic matter.  
\*\*When using Surflan 75 WP, multiply pints by 0.67 to obtain the amount of Surflan 75 WP product required. Do not use Surflan on soils containing more than 5% organic matter.  
\*\*\*Do not use.  
\*\*\*\*Sencor DF or Lexone DF.

**WEEDS CONTROLLED PREEMERGENCE**

When GOAL 2E herbicide is tank mixed with Bronco, Dual, Lasso or Surflan and applied preemergence, in addition to the weeds controlled preemergence by GOAL 2E herbicide alone, control of the following weeds is also obtained:

- |                  |                        |
|------------------|------------------------|
| BARNYARDGRASS    | JOHNSONGRASS, SEEDLING |
| CRABGRASS, LARGE | PANICUM, FALL          |
| FOXTAIL, GIANT   | RAGWEED, COMMON        |
| FOXTAIL, YELLOW  | SIGNALGRASS, BROADLEAF |

**WEEDS CONTROLLED POSTEMERGENCE**

When GOAL 2E herbicide is tank mixed with Bronco, Gramoxone Super or Roundup and applied postemergence, in addition to the weeds controlled postemergence by GOAL 2E herbicide alone, control of the following weeds is also obtained:

- |                   |                       |
|-------------------|-----------------------|
| BLUEGRASS, ANNUAL | FOXTAIL, YELLOW       |
| CRABGRASS, LARGE  | LAMBSQUARTERS, COMMON |
| FOXTAIL, GIANT    | RAGWEED, COMMON       |
| FOXTAIL, GREEN    | SANDBUR, FIELD        |

**TIMING AND METHOD OF APPLICATION**

As a preemergence treatment, apply in 20 to 60 gallons of water per acre. If Bronco or Roundup are included in the tank mix, apply in 20 to 40 gallons of water per acre. To insure complete coverage, spray volume should be increased as the density of emerged weeds, crop residue or stubble increases. Use conventional spray equipment with flat fan or flood jet nozzles. Spray equipment should be calibrated carefully before each use.

**POST-DIRECTED SPRAY**

**GOAL 2E HERBICIDE USED ALONE**

**DOSAGE**

GOAL 2E herbicide is recommended as a post-directed application at 1 pint (0.25 lb. active) per acre. Optimum control is achieved when GOAL 2E herbicide is applied to seedling weeds not exceeding 4 true leaves. See "Mixing Directions" for surfactant recommendations. Weeds should be in the seedling stage, young and actively growing. Do not count cotyledon leaves.

**TANK MIXES WITH GOAL 2E HERBICIDE**

For improved broadleaf weed control, a tank mixture of GOAL 2E herbicide plus Butoxone® or Butyrac® 200 is suggested. Use 1 pint of GOAL 2E herbicide (0.25 lb. active) with 1 pint of Butoxone (0.22 lb. active) or 0.7 to 0.9 pint of Butyrac 200 (0.175 to 0.22 lb. active) per broadcast acre. See "Mixing Directions" for surfactant recommendations. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

**TIMING**

Soybean plant height must be a minimum 8 inches or greater. Use branch lifters or shields if excessive spray contact to the soybean plant cannot be avoided.

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## MODE OF APPLICATION

For effective weed control and to minimize soybean injury. As a directed postemergence application, GOAL 2E herbicide should be applied at 20 to 25 psi using 20 to 40 gallons of spray on a broadcast acre basis. Do not exceed 25 psi. Spray should be directed towards the base of the soybean plant. Soybean foliage receiving accidental spray or drift may be injured. Weeds should be in the seedling stage, young and actively growing.

GOAL 2E herbicide can be applied using a post-directed spray rig with only 2 flat fan nozzles per row, 1 nozzle on each side of the row. Additional care should be taken when adjusting the sprayer prior to application. For best coverage, it is suggested to use 4 flat fan nozzles per row, 2 nozzles on each side of the row. The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer system, nozzles should be adjusted to cover the weed stage with minimum contact to the soybean plant. Do not use cone nozzle.

## TANK MIXTURE OF GOAL 2E HERBICIDE WITH COMMAND® 6EC

### SOYBEANS (NOT FOR USE IN CALIFORNIA)

GOAL 2E herbicide when applied preemergence at 0.65 to 0.8 pint (0.16 to 0.2 lb. active) per acre in a tank mix combination with Command 6EC (EPA Reg. No. 279-3054) at 1 to 1 2/3 pints (0.75 to 1.25 lb. active) is effective for the control of susceptible annual grass and broadleaf weeds in soybeans. Application should be made within one day following planting. Later applications may result in severe crop injury and are not recommended.

## WEEDS CONTROLLED PREEMERGENCE

A tank mix of GOAL 2E herbicide with Command 6EC at recommended dosages, provides preemergence control of the following weeds:

### GRASS WEEDS

BARNYARDGRASS  
SIGNALGRASS, BROADLEAF  
(BRACHIARIA)  
CRABGRASS  
(CRABGRASS, LARGE)  
(CRABGRASS, SMOOTH)  
SANDBUR, FIELD  
FOXTAIL  
(FOXTAIL, GREEN)  
(FOXTAIL, GIANT)  
(FOXTAIL, YELLOW)  
(FOXTAIL, ROBUST PURPLE)  
GOOSEGRASS  
JOHNSONGRASS (SEEDLING)  
PANICUM  
(PANICUM, FALL)  
(PANICUM, TEXAS)  
CUPGRASS, SOUTHWEST  
CUPGRASS, WOOLLY

\*Suppression

### BROADLEAF WEEDS

\*NIGHTSHADE, BLACK  
PURSLANE, COMMON  
\*SOWTHISTLE, COMMON  
\*GROUNDCHERRY, CUTLEAF  
PUSLEY, FLORIDA  
BEGGARWEED, FLORIDA  
JIMSONWEED  
LAMBSQUARTERS  
SMARTWEED, PENNSYLVANIA  
SIDA, PRICKLY  
PIGWEEED, REDROOT  
SHEPHERDSPURSE  
CROTON, TROPIC  
VELVETLEAF  
MALLOW, VENICE

## SOYBEANS — SPECIFIC ENVIRONMENTAL HAZARDS

This product is highly toxic to freshwater clams, oysters, aquatic invertebrates and aquatic plants. Do not apply GOAL 2E herbicide where visible erosion to aquatic habitats and/or wetlands occurs. (See container for further information on Environmental Hazards.)

## SOYBEANS — SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- Do not make more than two applications of GOAL 2E herbicide per growing season.
- Do not apply more than 2 pints (0.5 lb. active) of GOAL 2E herbicide per acre during one growing season as a result of preemergence application in no-till (double-crop) or conventional till soybeans, or post-directed in conventional till soybeans. If early preplant application is made, do not apply more than 3 pints (0.75 lb. active) of GOAL 2E herbicide per acre during one growing season.
- Do not apply a post-directed application of GOAL 2E herbicide to soybeans after the initial appearance of blooms.

## TREEFRUIT/NUT/VINE

### DORMANT APPLICATION

ALMOND, APPLE, APRICOT, BRAZIL NUT, BUTTERNUT, CHESTNUT, CHINQUAPIN, C FILBERT, GRAPES, HICKORY MACADAMIA NUT, NECTARI PEAR, PECAN, PISTACHIO, PRUNE, QUINCE, WALNUT

### GENERAL INFORMATION

GOAL 2E is effective as a preemergence when used alone or in recommended annual broadleaf weeds, in certain bear plantings.

The most effective postemergence herbicide is applied to seedling weeds, grassy and broadleaf weeds, a tank mix: Gramoxone Super or Roundup can be used. For residual grass control in dormant mixture of GOAL 2E herbicide with C Solicam or Surflan can be applied. Contact or Roundup may also be added to the tank mix. Check individual product labels to determine.

## GOAL 2E HERBICIDE USED A GEOGRAPHIC USE DIRECTIONS

### ARIZONA AND CALIFORNIA

#### DOSAGE

GOAL 2E herbicide is recommended for pints (0.5 to 2.0 lb. active) per broadcast

### WEEDS CONTROLLED POSTEMERGENCE

(high) — Apply 2 to 8 pints (0.5 to 2.0 lb. active) per broadcast acre. Applications to weeds before partial control.

CHEESEWEED (MALVA)	MINI
FIDDLENECK, COAST	NET
*FILAREE, BROADLEAF	PIG
*FILAREE, REDSTEM	RED
*FILAREE, WHITESTEM	SHE
GROUNDSEL, COMMON	SOW
HENBIT	

\*GOAL 2E herbicide at the 8 pint rate (2 lb. active) of filaree not exceeding the 4 inch stage. Applications may result in partial control.

### WEEDS CONTROLLED PREEMERGENCE

2.0 lb. active) of GOAL 2E herbicide per broadcast	
BURCLOVER	LAMI
CHEESEWEED (MALVA)	LETT
FIDDLENECK, COAST	PIGW
FILAREE, BROADLEAF	PURSE
FILAREE, REDSTEM	REDM
FILAREE, WHITESTEM	ROCK
GROUNDSEL, COMMON	SHEP
HENBIT	SOWT
PROSTRATE	

## ALL OTHER STATES (EXCEPT CALIFORNIA)

#### DOSAGE

GOAL 2E herbicide is recommended for pints (0.5 to 2.0 lb. active) per broadcast acre. For susceptible weeds, use 4.8 to 8 pints (1.2 to 2.0 lb. active) per broadcast acre.

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**WEEDS CONTROLLED POSTEMERGENCE** Apply 2 to 8 pints (0.5 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre. The lower rate is recommended for the control of susceptible seedling weeds in the early postemergence stage up to the 4 leaf stage. The higher rate (2.0 lb. active) should be used for weeds up to the 6 leaf stage. Applications to weeds beyond the 6 leaf stage may result in partial control.

BALSAMAPPLE  
COCKLEBUR, COMMON  
\*CUDWEED, NARROWLEAF  
\*\*EVENINGPRIMROSE, CUTLEAF  
GROUNDCHERRY, CUTLEAF  
GROUNDCHERRY, WRIGHT  
JIMSONWEED  
LAMBSQUARTERS, COMMON  
MORNINGGLORY, ANNUAL  
NIGHTSHADE, AMERICAN BLACK  
NIGHTSHADE, BLACK

PEPPERWEED, VIRGINIA  
PIGWEEED, REDROOT  
POINSETTIA, WILD  
PURSLANE, COMMON  
SESBANIA, HEMP  
SHEPHERDSPURSE  
SIDA, PRICKLY (TEAWEED)  
SMARTWEED, PENNSYLVANIA  
SOWTHISTLE, ANNUAL  
VELVETLEAF

\*Maximum 0.5 inch diameter.

\*\*Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 8 pints (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.

**WEEDS CONTROLLED PREEMERGENCE** — Apply 6 to 8 pints (1.2 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

CAMPBORWEED  
CUDWEED, NARROWLEAF  
\*\*EVENINGPRIMROSE, CUTLEAF  
GROUNDCHERRY, CUTLEAF  
JIMSONWEED  
LAMBSQUARTERS, COMMON  
NIGHTSHADE, AMERICAN BLACK  
NIGHTSHADE, BLACK  
PEPPERWEED, VIRGINIA

PIGWEEED, REDROOT  
POINSETTIA, WILD  
SIDA, PRICKLY  
SMARTWEED, PENNSYLVANIA  
SOWTHISTLE, ANNUAL  
SPURGE, PROSTRATE  
SPURGE, SPOTTED  
VELVETLEAF

\*\*Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 8 pints (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.

**ALL STATES**

**TIMING AND METHOD OF APPLICATION**

In Arizona and California, applications of GOAL 2E herbicide should be made October 1 through February 15. In Coachella Valley (California), do not apply to grapes after February 1.

In all states, dormancy determines the suitability and safety of using GOAL 2E herbicide in treefruit, nut and vine plantings. Do not apply GOAL 2E herbicide after buds start to swell or when fruit/nuts are present.

As a preemergence treatment, apply a minimum of 40 gallons of water per acre. Use higher volumes to assure adequate coverage in high densities of emerged weeds or heavy trash. Best preemergence results are achieved when spray is applied to a relatively weed-free established berm or soil surface. GOAL 2E herbicide should be directed to the soil and the base of dormant trees or vines. Use a low-pressure sprayer equipped with a breakaway boom and flat fan nozzles. An off center (OC) nozzle positioned at the end of the boom may be desired. See SPECIFIC USE RESTRICTIONS for GOAL 2E herbicide application on dormant tree or vine plantings.

SPRAY VOLUME:	Gallons of Water per Acre
Weed Stage	
Preemergence	40 or more
Postemergence	
(up to 4 inch or 4 leaf stage)	40 or more
Exceeding 4 inch or 4 leaf stage	100 or more

**TANK MIXES WITH GOAL 2E HERBICIDE**

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

**DOSAGE**

For preemergence control of susceptible grassy and broadleaf weeds in certain dormant treefruit, nut crops and vines, a tank mixture of GOAL 2E herbicide with Devrinol, Karmex, KERB, simazine, Solicam or Surflan can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

For postemergence control of susceptible grassy and broadleaf weeds in certain dormant treefruit, nut crops and vines, a tank mixture of Gramoxone Super or Roundup with GOAL 2E herbicide or combinations of GOAL 2E herbicide plus Devrinol, Karmex, KERB, simazine Solicam or Surflan with either Gramoxone Super or Roundup can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

**WEEDS CONTROLLED**

In addition to the weeds controlled by GOAL 2E herbicide used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

Devrinol	simazine*
Gramoxone Super	Solicam
Karmex	Surflan
KERB	

\*In addition, simazine provides preemergence control of horseweed (marestalk).

**TREEFRUIT/NUT/VINE SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Apply only to dormant fruit or nut trees or vines. Dormancy determines the suitability and safety of using GOAL 2E herbicide on treefruit, nut and vines. Do not apply after buds start to swell or when foliage or fruit/nuts are present.
- IN ARIZONA AND CALIFORNIA, DO NOT APPLY GOAL 2E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO TREE OR VINE PLANTINGS BEFORE OCTOBER 1 OR AFTER FEBRUARY 15. DO NOT APPLY GOAL 2E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO GRAPES IN THE COACHELLA VALLEY (CALIFORNIA) BEFORE OCTOBER 1 OR AFTER FEBRUARY 1.
- Do not apply more than 8 pints (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.
- Do not apply to grapes or kiwi established less than 3 years unless vines are on a trellis wire a minimum of 3 feet above the soil surface.
- Do not apply to grapes or kiwi that are not staked or trellised unless grapes are free-standing.
- GOAL 2E herbicide or any of the combinations recommended on this label should be applied to only healthy growing trees or vines.
- Direct spray toward the base of tree or vines. Avoid direct plant contact.

**SPECIFIC USE RESTRICTIONS FOR INDIVIDUAL CROPS ARE FOUND UNDER DIRECTIONS FOR USE IN EACH CROP GROUP SECTION.**

**USE RESTRICTIONS THAT APPLY TO ALL REGISTERED APPLICATIONS ARE LISTED BELOW:**

**GENERAL USE RESTRICTIONS**

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- Do not contaminate irrigation water or water used for domestic purposes.
- Do not use any plants treated with GOAL 2E herbicide for feed or forage.
- Do not feed or allow animals to graze on any areas treated with GOAL 2E herbicide.
- GOAL 2E herbicide should be applied only by ground application equipment except as specifically directed on this label or on other approved Rohm and Haas Company supplemental labeling.

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# Goal<sup>®</sup> 2E HERBICIDE



NOT REVIEWED  
In accordance with EPA notice 02-2  
Based on draft labeling Dated 8/8/91

KEEP OUT OF REACH OF CHILDREN

## WARNING AVISO

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions, and Storage and Disposal Instructions on side panel and attached use directions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

### ACTIVE INGREDIENT

Oxyfluorfen  
2-chloro-1-(3-ethoxy-4-nitrophenoxy)-  
4-(trifluoromethyl) benzene ..... 22.6%\*

INERT INGREDIENTS ..... 77.4%  
100.0%

\*Equivalent to 2.0 lbs. active ingredient per gallon.

This product contains the toxic inert ingredient dimethylformamide (DMF).

EPA Reg. No. 707-145  
EPA Est. No. 707-PA-1  
U.S. Pat. No. 3,798,276

NET CONTENTS 2.5 GALLONS (9.46 LITERS)

## PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

### WARNING

Causes substantial but temporary eye injury and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield. This material may be harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

#### Statement of Practical Treatment

**IF IN EYES:** Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention.

**IF ON SKIN:** Wash thoroughly with plenty of soap and water. If irritation develops, get medical attention.

**IF SWALLOWED:** Do not induce vomiting. Dilute by giving 2 glasses of water to drink. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Move victim to fresh air.

**NOTE TO PHYSICIAN:** Contains petroleum distillates. Aspiration hazard may contraindicate the use of gastric lavage.

#### Environmental Hazards

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to aquatic invertebrates, aquatic plants, wildlife and fish. Use with care when applying in areas frequented by wildlife or adjacent to any body of water or wetland area. Do not apply when weather conditions favor drift or erosion from target areas.

#### Physical or Chemical Hazards

Combustible

Do not use or store near heat or open flame.

#### CONDITIONS OF SALE AND WARRANTY

Rohm and Haas warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. **ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

GOAL is a trademark of Rohm and Haas Company  
© Copyright 1986 Rohm and Haas Company

## DIRECTIONS FOR USE

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

**SEE ATTACHED BOOKLET ON BACK PANEL FOR COMPLETE USE DIRECTIONS.**

**SHAKE WELL BEFORE USING**

## RE-ENTRY AND WORKER PROTECTION STATEMENTS

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. **SEE USE DIRECTIONS FOR ADDITIONAL RE-ENTRY STATEMENTS.**

## STORAGE AND DISPOSAL

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

**STORAGE:** Keep from freezing. Store above 32°F.

**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 EPA Regional office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Ventilate area. Avoid breathing vapors. Use MSHA/NIOSH self-contained breathing apparatus or airline respirator for large spills in confined areas. Dike the spill with inert material (sand, earth, etc.) and transfer the liquid or solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash exposed skin areas with soap and water. Wash clothing before re-use. Keep spill out of all sewers and open bodies of water.

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MADE IN U.S.A.

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## USE DIRECTIONS FOR:

**CITRUS (NONBEARING) • CONIFER  
• CORN • COTTON • FALLOW BED AIR  
APPLICATION • FALLOW BED GROUND  
APPLICATION • FALLOW LAND • MINT  
• SOYBEANS • TREEFRUIT/NUT/VINE**

Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

## KEEP OUT OF REACH OF CHILDREN

## WARNING AVISO

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**PRECAUCION AL USUARIO:** Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

Causes substantial but temporary eye injury and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield. This material may be harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

### STATEMENTS OF PRACTICAL TREATMENT

**IF IN EYES:** Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention.

**IF ON SKIN:** Wash thoroughly with plenty of soap and water. If irritation develops, get medical attention.

**IF SWALLOWED:** Do not induce vomiting. Dilute by giving 2 glasses of water to drink. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Move victim to fresh air.

**NOTE TO PHYSICIAN:** Contains petroleum distillates. Aspiration hazard may contraindicate the use of gastric lavage.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to aquatic invertebrates, aquatic plants, wildlife and fish. Use with care when applying in areas frequented by wildlife or adjacent to any body of water or wetland area. Do not apply when weather conditions favor drift or erosion from target areas.

### PHYSICAL OR CHEMICAL HAZARDS

Combustible.

Do not use or store near heat or open flame.

its labeling.

## RE-ENTRY AND WORKER PROTECTION STATEMENTS

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Do not apply this product in such a manner as to directly or through drift, expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information:

### WARNING

(Insert area or field description) treated with GOAL 2E herbicide on (insert date of application). Do not enter treated areas without protective clothing until sprays have dried. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to GOAL 2E herbicide and describe his condition. For further information see the "Statements of Practical Treatment."

Oral warnings must include the same information that is in the written warnings.

## STORAGE AND DISPOSAL

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

**STORAGE:** Keep from freezing. Store above 32°F.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or residue 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

**Plastic Containers:** Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Ventilate area. Avoid breathing vapors. Use MSHA/NIOSH self-contained breathing apparatus or airline respirator for large spills in confined areas. Dike the spill with inert material (sand, earth, etc.) and transfer the liquid or solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash exposed skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and bodies of water.

### CHEMIGATION

Do not apply this product through any type of irrigation system.

### GENERAL CLASSIFICATION

GOAL 2E herbicide is an emulsifiable concentrate containing 2.0 lbs of active ingredient per gallon. It is useful in preemergence, postemergence or post-directed applications.

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## GENERAL USE INFORMATION

### CULTURAL CONSIDERATIONS

In order for GOAL 2E herbicide to provide maximum preemergence activity:

Prior to application, the bed or soil surface should be smooth and free of crop and weed trash (decaying leaves, clippings, dead weeds, etc.). Leaves and trash may be removed by blowing the area to be treated or by thoroughly mixing the trash into the soil through cultivation prior to herbicide application.

After application, at least one-quarter inch (1/4 inch) of irrigation or rainfall should occur within 3 or 4 weeks after application. The best results from GOAL 2E herbicide are from applications to established beds or soil surfaces that are left undisturbed during the time period for which weed control is desired. Cultural practices that result in redistribution or disturbance of the soil surface after treatment will decrease the herbicidal effectiveness of GOAL 2E. Cutting water furrows or cultivations that mix untreated soil into treated areas will also reduce the effectiveness of the treatment.

### MIXING DIRECTIONS

Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the recommended amount of herbicides to the spray tank. The order of addition to the spray tank should be wettable powders first, flowables second and liquids last. Complete filling of the spray tank with water. For all applications of GOAL 2E herbicide (except onions) where postemergence weed control is desired, add 2 to 4 pints of TRITON AG-98® (or comparable 80% active nonionic surfactant cleared for application to growing crops) per each 100 gallons of spray. The addition of 4 pints of TRITON AG-98 per 100 gallons of spray is recommended to enhance postemergence activity when hard water (greater than 600 ppm) is used as carrier. Maintain agitation until spraying is completed.

Spray equipment should be calibrated carefully before each use.

Dosages listed on this label are for broadcast application. For banded application, the amount of GOAL 2E herbicide used per acre should be reduced according to the following formula:

$$\frac{\text{Band Width (in inches)}}{\text{Row Width (in inches)}} \times \frac{\text{Rate per Broadcast Acre}}{\text{Amount Needed per Acre for Banded Application}}$$

## CITRUS (NONBEARING)

**CALAMONDIN, CHIRONJA, CITRUS CITRON, GRAPEFRUIT, KUMQUAT, LEMON, LIME, MANDARIN, PUMMELO, SATSUMA MANDARIN, SOUR ORANGE, SWEET ORANGE, TANGELO, TANGERINE, TANGOR**  
FOR USE ONLY IN PERMANENTLY ESTABLISHED GROVES IN ARIZONA, CALIFORNIA, FLORIDA, LOUISIANA AND TEXAS

### GENERAL INFORMATION

GOAL 2E is effective as a preemergence and/or postemergence herbicide when used alone or in recommended tank mix combinations, for the control of certain annual broadleaf weeds in nonbearing citrus plantings. GOAL 2E herbicide may be applied to newly planted trees or to young trees that will not bear fruit within one year.

The most effective postemergence weed control is achieved when GOAL 2E herbicide is applied to seedling weeds at the recommended growth stage. For postemergence control of certain grassy and broadleaf weeds, a tank mix of GOAL 2E herbicide with Gramoxone Super or Roundup can be used.

For residual grass control in citrus, a tank mixture of GOAL 2E herbicide with Devrinol®, simazine, Solicam® or Surflan® can be used. Contact herbicides such as Gramoxone Super or Roundup may also be added to the tank mixture.

Check individual product labels to determine suitability and use rates for various crops.

### GOAL 2E HERBICIDE USED ALONE

### GEOGRAPHIC USE DIRECTIONS

#### ARIZONA AND CALIFORNIA

### DOSAGE

GOAL 2E herbicide is recommended for postemergence control at 2 to 8 pints (0.5 to 2.0 lb. active) per broadcast acre. For preemergence control of susceptible weeds, use 8 pints (2.0 lb. active) per broadcast acre.

**WEEDS CONT. LED POSTEMERGENCE** (weeds up to 4 inches high) — Apply 2 to 8 pints (0.5 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre. Applications to weeds beyond this 4-inch stage may result in partial control.

- |                     |                    |
|---------------------|--------------------|
| CHEESEWEED (MALVA)  | MINERSLETTUCE      |
| FIDDLENECK, COAST   | NETTLE, BURNING    |
| *FILAREE, BROADLEAF | PIGWEEED, REDROOT  |
| *FILAREE, REDSTEM   | REDMAIDS           |
| *FILAREE, WHITESTEM | SHEPHERDSPURSE     |
| GROUNDSEL, COMMON   | SOWTHISTLE, ANNUAL |
| HENBIT              |                    |

\*GOAL 2E herbicide at the 8 pint rate (2.0 lb. active) will provide control of filaree not exceeding the 4-inch stage. Applications to filaree beyond the 4-inch stage may result in partial control.

**WEEDS CONTROLLED PREEMERGENCE** — Apply 4.8 to 8 pints (1.2 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

- |                       |                    |
|-----------------------|--------------------|
| BURCLOVER             | LETTUCE, PRICKLY   |
| CHEESEWEED (MALVA)    | PIGWEEED, REDROOT  |
| FIDDLENECK, COAST     | PURSLANE, COMMON   |
| FILAREE, BROADLEAF    | REDMAIDS           |
| FILAREE, REDSTEM      | ROCKET, LONDON     |
| FILAREE, WHITESTEM    | SHEPHERDSPURSE     |
| GROUNDSEL, COMMON     | SOWTHISTLE, ANNUAL |
| HENBIT                | SPURGE, PROSTRATE  |
| KNOTWEED, PROSTRATE   | SPURGE, SPOTTED    |
| LAMBSQUARTERS, COMMON |                    |

## FLORIDA, LOUISIANA AND TEXAS

### DOSAGE

GOAL 2E herbicide is recommended for postemergence control at 2 to 8 pints (0.5 to 2.0 lb. active) per broadcast acre. For preemergence control of susceptible weeds, GOAL 2E herbicide is recommended at 8 pints (2.0 lb. active) per broadcast acre.

**WEEDS CONTROLLED POSTEMERGENCE** — Apply 2 to 8 pints (0.5 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre. The lower rate is recommended for the control of susceptible seedling weeds in the early postemergence stage, up to the 4 leaf stage. The higher rate (2.0 lb. active) should be used for weeds up to the 6 leaf stage. Applications to weeds beyond the 6 leaf stage may result in partial control.

- |                            |                         |
|----------------------------|-------------------------|
| BALSAMAPPLE                | PEPPERWEED, VIRGINIA    |
| *CUDWEED, NARROWLEAF       | PIGWEEED, REDROOT       |
| **EVENINGPRIMROSE, CUTLEAF | POINSETTIA, WILD        |
| GROUNDCHERRY, CUTLEAF      | PURSLANE, COMMON        |
| GROUNDCHERRY, WRIGHT       | PUSLEY, FLORIDA         |
| LAMBSQUARTERS, COMMON      | SIDA, PRICKLY (TEAWEED) |
| MORNINGGLORY, ANNUAL       | SMARTWEED, PENNSYLVANIA |
| NIGHTSHADE, AMERICAN BLACK | SOWTHISTLE, ANNUAL      |
| NIGHTSHADE, BLACK          |                         |

**WEEDS CONTROLLED PREEMERGENCE** — Apply 8 pints (2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

- |                            |                         |
|----------------------------|-------------------------|
| CUDWEED, NARROWLEAF        | POINSETTIA, WILD        |
| **EVENINGPRIMROSE, CUTLEAF | PUSLEY, FLORIDA         |
| GROUNDCHERRY, CUTLEAF      | SIDA, PRICKLY (TEAWEED) |
| LAMBSQUARTERS, COMMON      | SMARTWEED, PENNSYLVANIA |
| NIGHTSHADE, AMERICAN BLACK | SOWTHISTLE, ANNUAL      |
| NIGHTSHADE, BLACK          | SPURGE, PROSTRATE       |
| PEPPERWEED, VIRGINIA       | SPURGE, SPOTTED         |
| PIGWEEED, REDROOT          |                         |

\*Maximum 0.5 inch diameter.

\*\*Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 16 pints (4.0 lb. active) per broadcast acre during any 12-month period as a result of multiple applications.

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**ALL STATES — ARIZONA, CALIFORNIA, FLORIDA,  
LOUISIANA AND TEXAS**

**TIMING AND METHOD OF APPLICATION**

GOAL 2E herbicide should be directed to the soil and the base of trees. Avoid direct spray contact on the citrus foliage. Use a low-pressure sprayer equipped with a breakaway boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired.

**SPRAY VOLUME:**

Weed Stage	Gallons of Water per Acre
Preemergence	40 or more
Postemergence* up to 4 inch or 4 leaf stage	40 or more
Exceeding 4 inch or 4 leaf stage	100 or more

**TANK MIXES WITH GOAL 2E HERBICIDE**

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mix, the most restrictive situations must apply.

**DOSAGE**

For preemergence control of susceptible grassy and broadleaf weeds in citrus plantings, a tank mixture of GOAL 2E herbicide with Devrinol, Simazine, solicam or Surflan can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

For postemergence control of susceptible grassy and broadleaf weeds, a tank mixture of Gramoxone Super or Roundup with GOAL 2E herbicide or combinations of GOAL 2E herbicide plus Devrinol, Simazine, solicam or Surflan can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

**WEEDS CONTROLLED**

In addition to the weeds controlled by GOAL 2E herbicide used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

Devrinol 50-WP	simazine*
Gramoxone Super	Solicam
Roundup	Surflan

\*In addition, provides preemergence control of horseweed (marestail).

**CITRUS (NONBEARING)  
SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe the GENERAL USE RESTRICTIONS listed at the end of this label.

- Apply GOAL 2E herbicide only to nonbearing citrus trees.
- Do not apply more than 8 pints of GOAL 2E herbicide (2.0 lb. active) per broadcast acre in a single application or more than 16 pints (4.0 lb. active) per broadcast acre during any 12-month period as a result of multiple applications.
- GOAL 2E herbicide or any of the combinations recommended on this label should only be applied to healthy growing trees.
- Do not apply during periods of new foliage growth. Applications should be made after foliage has fully expanded and hardened off.
- Direct spray toward the base of trees. Avoid direct spray contact on the citrus foliage.

**CONIFER SEEDBEDS, TRANSPLANTS  
AND CONTAINER STOCK**

**GENERAL INFORMATION**

GOAL 2E is effective as a preemergence and/or postemergence herbicide for the control of certain annual grassy and broadleaf weeds in conifer seedbeds, transplant and conifer stock. The most effective postemergence weed control is achieved when GOAL 2E herbicide is applied to seedling weeds less than 4 inches in height. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Treated soil surfaces should not be disturbed as the herbicidal effectiveness of GOAL 2E may be decreased. Seedling weeds are controlled during emergence as they come in contact with the soil-applied herbicide.

**IMPORTANT:** Some varieties or cultivars of conifers and ornamental species listed may be susceptible. GOAL 2E herbicide. Care should be taken to insure that the particular variety to be sprayed with GOAL 2E herbicide is tolerant. It is suggested that unfamiliar species be tested in limited areas prior to application for preemergence and postemergence weed control.

**WEEDS CONTROLLED**

When GOAL 2E herbicide is applied preemergence or postemergence at recommended dosages and weed stages, the following grasses and broadleaf weeds are controlled:

- |                        |                          |
|------------------------|--------------------------|
| *BARNYARDGRASS         | *MORNINGGLORY, TALL      |
| BEDSTRAW, CATCHWEED    | MUSTARD, BLUE            |
| BITTERCRESS, LESSER    | MUSTARD, TUMBLE          |
| *BLUEGRASS, ANNUAL     | MUSTARD, WILD            |
| BUCKWHEAT, WILD        | NETTLE, BURNING          |
| BURCLOVER              | NIGHTSHADE, BLACK        |
| CARPETWEED             | NIGHTSHADE, HAIRY        |
| *CHICKWEED, COMMON     | OATS, WILD               |
| *CHICKWEED, STICKY     | ORACH, RED               |
| *CLOVER, RED           | PEPPERWEED, YELLOWFLOWER |
| *CLOVER, WHITE         | PIGWEEED, PROSTRATE      |
| COCKLEBUR, COMMON      | PIGWEEED, REDROOT        |
| *CRABGRASS, LARGE      | PIMPERNEL, SCARLET       |
| *FIDDLENECK, COAST     | PURSLANE, COMMON         |
| FILAREE, BROADLEAF     | REDMAIDS                 |
| FILAREE, REDSTEM       | ROCKET, LONDON           |
| FIREWEED (FROM SEED)   | SANDSPURRY, RED          |
| FLIXWEED               | *SHEPHERDSPURSE          |
| *FOXTAIL, GIANT        | SIDA, PRICKLY            |
| *GOOSEGRASS            | SMARTWEED, PENNSYLVANIA  |
| GROUNDCHERRY, CUTLEAF  | SORREL, RED (FROM SEED)  |
| GROUNDCHERRY, WRIGHT   | SOWTHISTLE, ANNUAL       |
| GROUNDSEL, COMMON      | SPEEDWELL, BIRDSEY       |
| HENBIT                 | **SPURGE, PROSTRATE      |
| JIMSONWEED             | **SPURGE, SPOTTED        |
| KNOTWEED, PROSTRATE    | SPURRY, CORN             |
| LADYSTHUMB             | TANSYMUSTARD             |
| LAMBSQUARTERS, COMMON  | **THISTLE, BULL          |
| LETTUCE, PRICKLY       | THISTLE, RUSSIAN         |
| MALLOW, LITTLE         | VELVETLEAF               |
| MAYWEED                | WITCHGRASS               |
| MINERSLETTUCE          | **WOODSORREL, YELLOW     |
| *MORNINGGLORY, IVYLEAF |                          |

\*Highest rate and/or multiple applications may be required for acceptable control.

\*\*Preemergence control only.

GOAL 2E herbicide is most effective when applied preemergence to annual grasses. Postemergence applications should be made to seedling grasses not exceeding the 2-leaf stage. The addition of 0.25% (2 pints/100 gallons of spray solution) of TRITON AG-98 or comparable 80% active nonionic surfactant, cleared for application on growing crops, enhances the GOAL 2E herbicide activity on emerged weeds.

**CONIFER SEEDBEDS**

To assist in the establishment of conifer seedbeds, a preemergence application should be made after seeding but prior to conifer emergence. Postemergence applications should not be made until a minimum of 5 weeks after emergence of the conifer seedlings. Additional care should be taken if cool, cloudy weather occurs during emergence to make certain that seedlings have hardened off prior to spraying.

Conifers are tolerant to preemergence and postemergence applications of GOAL 2E herbicide. Applied postemergence, GOAL 2E herbicide will provide both postemergence and residual preemergence control of many broadleaf weeds and annual grass species.

**CONIFER SPECIES**

GOAL 2E herbicide may be applied to conifer seedbeds of numerous species including the following:

DOUGLAS-FIR	<i>Pseudotsuga menziesii</i>
FIR	
FRASER	<i>Abies fraseri</i>
GRAND	<i>Abies grandis</i>
NOBLE	<i>Abies procera</i>
HEMLOCK	
EASTERN HEMLOCK	<i>Tsuga canadensis</i>

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PINE  
 AUSTRIAN  
 EASTERN WHITE  
 HIMALAYAN  
 JACK  
 LOBLOLLY  
 LODGEPOLE  
 LONGLEAF  
 MONTEREY  
 MUGHO  
 PONDEROSA  
 SCOTCH  
 SHORTLEAF  
 SLASH  
 VIRGINIA  
 SPRUCE  
 BLUE  
 DWARF ALBERTA  
 NORWAY  
 SITKA

*Pinus nigra*  
*Pinus strobus*  
*Pinus wallichiana*  
*Pinus banksiana*  
*Pinus taeda*  
*Pinus contorta*  
*Pinus palustris*  
*Pinus radiata*  
*Pinus mugo*  
*Pinus ponderosa*  
*Pinus sylvestris*  
*Pinus echinata*  
*Pinus elliotii*  
*Pinus virginiana*  
  
*Picea pungens*  
*Picea glauca Conica*  
*Picea abies*  
*Picea sitchensis*

**PREEMERGENCE DOSAGE**

Apply 1 to 4 pints (0.25 to 1.0 lb. active) of GOAL 2E herbicide per broadcast acre as a preemergence application. Where grassy weeds are present, a minimum rate of 2 pints (0.5 lb. active) of GOAL 2E herbicide per broadcast acre is suggested. In known areas of high weed competition, 4 pints (1.0 lb. active) of GOAL 2E herbicide per broadcast acre are recommended.

**TIMING AND METHOD OF APPLICATION**

Apply recommended dosage after seeding but prior to conifer emergence. GOAL 2E herbicide should be thoroughly mixed with clean water at recommended concentration and applied at 20 to 40 psi in a minimum of 20 gallons of water per treated acre. Broadcast to beds and irrigate prior to weed emergence with 1/2 to 3/4 inch of sprinkler irrigation.

**POSTEMERGENCE DOSAGE**

Apply 1 to 2 pints (0.25 to 0.5 lb. active) of GOAL 2E herbicide per broadcast acre with each postemergence application. Two or three postemergence applications may be necessary for season-long weed control.

**TIMING AND METHOD OF APPLICATION**

Apply recommended dosage to seedbeds no sooner than 5 weeks after emergence of conifer seedlings. Additional care should be taken if cool, cloudy weather occurs during emergence to make certain that seedlings have hardened off prior to spraying. Application should be made to seedling weeds (less than 4 inches in height). GOAL 2E herbicide should be thoroughly mixed with clean water at recommended concentration and applied as a broadcast application at 20 to 40 psi in a minimum of 20 gallons of water per treated acre.

**CONIFER TRANSPLANTS AND CONTAINER STOCK (INCLUDES 2-0 SEEDLING AND CHRISTMAS TREE PLANTINGS)**

Many container-grown conifers and conifer transplants are tolerant to preemergence and postemergence applications of GOAL 2E herbicide. Applied post-emergence, GOAL 2E herbicide will provide both postemergence and preemergence control of many broadleaf weeds and grasses. Postemergence applications should be applied before bud break or after foliage has had an opportunity to harden off. Conifers may be transplanted from seedbeds and sprayed directly providing bud break has not occurred.

The following conifer species in addition to species listed under the CONIFER SEEDBED section have been shown to be tolerant to GOAL 2E herbicide.

ARBORVITAE  
*Thuja occidentalis*  
*Thuja orientalis*  
 JUNIPER  
*Juniperus chinensis*  
*Juniperus horizontalis*  
*Juniperus procumbens*  
*Juniperus sabina*  
*Juniperus scopulorum*

RED CEDAR  
*Juniperus virginiana*  
 WESTERN HEMLOCK  
*Tsuga heterophylla*  
 YEW  
*Taxus species*

**DOSAGE**

For preemergence or postemergence weed control apply 4 to 8 pints (1.0 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

**TIMING AND METHOD OF APPLICATION**

For optimum weed control, preemergence applications should be made immediately after transplanting seedlings or to weed-free container stock. Postemergence applications should be made to weeds less than 4 inches in height. Two applications may be necessary, in fall-transplanted conifer fields, for season-long weed control. The addition of 0.25% (2 pints/100 gals. of spray solution) of TRITON AG-98 or comparable 80% active nonionic surfactant, cleared for application to growing crops, enhances GOAL 2E herbicide activity on emerged weeds. GOAL 2E herbicide must be applied only to conifer transplants prior to bud break or after foliage has had an opportunity to harden off. Thoroughly mix with clean water at recommended concentration and apply at 20 to 40 psi in a minimum of 20 gallons of water per treated acre. Spray over the top of transplants. Heavy rainfall immediately following application to emerged weeds may reduce effectiveness.

**POAST® HERBICIDE TANK MIX IN CONIFER PLANTATIONS**

FOR USE ONLY IN THE STATES OF ALABAMA, GEORGIA, KENTUCKY, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA AND WEST VIRGINIA

**GENERAL INFORMATION**

GOAL 2E is effective as a preemergence and/or postemergence herbicide for the control of certain annual grassy and broadleaf weeds in conifer plantations.

The tank mix of GOAL 2E herbicide with Poast will provide additional control of certain annual and perennial grass weeds (see Poast label for weeds).

The following plants are tolerant to a tank mix of GOAL 2E herbicide plus Poast:

COMMON NAME	SCIENTIFIC NAME
FIR, FRASER	<i>Abies Fraseri</i>
*HEMLOCK, CANADA	<i>Tsuga canadensis</i>
PINE, VIRGINIA	<i>Pinus virginiana</i>
PINE, WHITE	<i>Pinus strobus</i>
SPRUCE, NORWAY	<i>Picea abies</i>

\*Canada Hemlock has a prolonged period of bud break and new growth, thus, directed applications are recommended during this period.

Broadleaf weeds controlled: See GOAL 2E herbicide label.

Grasses controlled: See Poast herbicide label.

GOAL 2E herbicide and Poast rates: A maximum of 8 pints per acre per season of GOAL 2E herbicide may be tank mixed with Poast. A maximum of 2.5 pints of Poast may be tank mixed with GOAL 2E herbicide.

See GOAL 2E herbicide label for minimum recommended rates of GOAL 2E herbicide and see Poast label for minimum recommended rates of Poast. Two or three applications may be needed for season-long control. In some cases, reduced grass control with Poast may be experienced when tank mixed with GOAL 2E herbicide.

**TIMING**

Applications should be made when weeds are actively growing but before conifer bud break or after conifer foliage has had an opportunity to harden off. Broadleaf weeds must be within the height limitations indicated on the GOAL 2E herbicide label.

**METHOD OF APPLICATION**

Fill the spray tank at least one-third full of clean water and add the recommended amounts of GOAL 2E herbicide and Poast while the pump and agitator are running. Complete filling of the spray tank with water. Apply at 20 to 40 psi in a minimum of 20 gallons of water per treated acre. Heavy rainfall immediately following application to emerged weeds may reduce effectiveness.

IMPORTANT: When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.



**CONIFER — SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- NOT FOR CONIFER RELEASE IN FOREST MANAGEMENT PROGRAMS OR FOR FOREST REGENERATION APPLICATIONS.
- Do not apply GOAL 2E herbicide in an enclosed greenhouse structure as injury to plant foliage may result.
- Do not store or transport treated container stock in an enclosed structure until completion of 4 irrigations (minimum 21 days) as injury to non-labeled plants may occur.
- Always apply GOAL 2E herbicide only to healthy conifer stock. Do not apply GOAL 2E herbicide to conifers that are under stress from excessive fertilizer or soil salts, disease, nematodes, frost, drought, flooding, previously applied pesticides, soil insects, or winter injury, as severe injury may result.

**CORN**

**FOR USE ONLY AS A DIRECTED SPRAY ON FIELD CORN IN CONJUNCTION WITH THE USDA WITCHWEED ERADICATION PROGRAM IN NORTH CAROLINA AND SOUTH CAROLINA**

**GENERAL INFORMATION**

GOAL 2E is a selective herbicide for the control of witchweed (*Striga asiatica*), and works both preemergence and postemergence against witchweed.

**DOSAGE**

Use 2 to 3 pints of GOAL 2E herbicide (0.5 to 0.75 lb. active) per acre for the first application. The 2 pint rate (0.5 lb. active) per acre should be the standard use rate, with the 3 pint rate (0.75 lb. active) per acre for isolated infestations. Repeat treatments should be made at rates of 1 to 2 pints (0.25 to 0.5 lb. active) per acre. Applications should be made in 10 to 30 gallons of water per acre. Use TRITON AG-98 spreader in the spray mixture at the rate of 0.25% by water volume or 1 quart in 100 gallons of spray mix.

**TIMING AND METHOD OF APPLICATION**

Fields in the witchweed infested area selected for treatment with GOAL 2E herbicide should be examined during the early part of the growing season to determine uniformity of corn stand and grassy weed pressure. Weedy fields should be cultivated prior to the initial application so as to obtain the best possible soil coverage in the first spray application. Apply during May-August to emerged witchweed before bloom or as soon as possible after bloom appears, to avoid seed set. Corn should have a minimum height of 24 inches at the first application. After this application has been made, the fields should be inspected regularly for any breakthrough of the witchweed. If breakthrough occurs, then a second spray should be applied like the first. This application will be made postemergence to the witchweed, preferably before bloom or as soon as possible past the first appearance of witchweed bloom, to avoid seed set.

In all applications direct the GOAL 2E herbicide spray at the base of the corn plant and uniformly over the entire row surface. Do not spray over the top of the corn, as this may result in severe corn injury. Spray droplets contacting the lower leaves will cause necrotic spotting or streaking of sprayed tissue. Spray should contact only the lower 3 to 8 inches of the corn stalk and any leaves in this zone.

**CORN — SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 5 pints of GOAL 1.6E herbicide (1.25 lb. active) per acre to a corn crop during the growing season.
- Do not apply any application within 30 days of harvest.
- Do not use corn plants from a treated field for green chop, ensilage, forage or fodder.

**COTTON**

**POST-DIRECTED SPRAY**

**GENERAL INFORMATION**

GOAL 2E is a selective herbicide for use as a post-directed application for broadleaf weed control in cotton. Cotton leaves that are accidentally sprayed will exhibit necrotic spotting and may drop from the plant, therefore, care must be exercised to avoid spray contact with the cotton leaves. Crop response may be enhanced if applications are made when excessive soil moisture is present or if rainfall occurs following application. Cotton will outgrow this condition and continue to develop normally.

**DOSAGE**

GOAL 2E herbicide is recommended as a post-directed application at 1 to 2 pints (0.25 to 0.5 lb. active) per acre. Optimum control is achieved when 2 pints of GOAL 2E herbicide (0.5 lb. active) per acre are applied to weed seedlings not exceeding 4 true leaves. Effective control of succulent weed seedlings in the 2 to 3 leaf stage can usually be obtained when 1 pint of GOAL 2E herbicide (0.25 lb. active) per acre are applied. See "Mixing Directions" for surfactant recommendation. Weeds should be in the seedling stage, young and actively growing. Do not count cotyledon leaves.

**WEEDS CONTROLLED POSTEMERGENCE**

When GOAL 2E herbicide is applied as a post-directed application at the recommended weed stage and dosage in cotton, the following weeds are controlled:

- |                            |                          |
|----------------------------|--------------------------|
| COCKLEBUR, COMMON          | NIGHTSHADE, HAIRY        |
| CROTON, TROPIC             | PIGWEEED, REDROOT        |
| GROUNDCHERRY, CUTLEAF      | *POINSETTIA, WILD        |
| GROUNDCHERRY, WRIGHT       | PURSLANE, COMMON         |
| JIMSONWEED                 | SESBANIA, HEMP           |
| LAMBSQUARTERS, COMMON      | **SICKLEPOD              |
| MORNINGGLORY, ANNUAL       | *SIDA, PRICKLY (TEAWEED) |
| (UP TO 6 LEAF)             | SMARTWEED, PENNSYLVANIA  |
| NIGHTSHADE, AMERICAN BLACK | VELVETLEAF               |
| NIGHTSHADE, BLACK          |                          |

\*Multiple applications may be required for acceptable control.

\*\*Post-direct applications of GOAL 2E herbicide will kill or suppress seedlings not exceeding the one true leaf stage.

**TIMING**

**SOUTHERN COTTON**

**ALABAMA, ARKANSAS, GEORGIA, LOUISIANA, MISSISSIPPI, MISSOURI, NEW MEXICO, NORTH CAROLINA, OKLAHOMA, SOUTH CAROLINA, TENNESSEE AND TEXAS**

Cotton plant height must be a minimum 6 inches or greater. Application to cotton plants less than 6 inches tall may result in severe crop injury and is not recommended. In cotton 6 to 8 inches tall, GOAL 2E herbicide must be applied using rigid precision ground sprayer equipment. The use of spray shields is recommended to avoid spray contact with cotton foliage. Use branch lifters or shields if excessive spray contact on larger cotton plants (8 inches or greater) cannot be avoided by the directed spray.

**WESTERN COTTON**

**ARIZONA AND CALIFORNIA**

Cotton plant height must be a minimum 6 inches or greater. Application to cotton plants less than 6 inches tall may result in severe crop injury and is not recommended. In cotton 6 to 8 inches tall, GOAL 2E herbicide must be applied using rigid precision ground sprayer equipment. The use of spray shields is recommended to avoid spray contact with cotton foliage. Use branch lifters or shields if excessive spray contact on larger cotton plants (8 inches or greater) cannot be avoided by the directed spray.



To obtain the maximum benefit of postemergence activity, encourage weed emergence by irrigating prior to spraying. Irrigate immediately following herbicide application to obtain greatest benefit of preemergence activity from GOAL 2E herbicide on nightshade and groundcherry species.

**METHOD OF APPLICATION**

**SOUTHERN AND WESTERN COTTON**

Accurate, uniform placement of GOAL 2E herbicide spray is essential for effective weed control and to minimize cotton injury. As a directed postemergence application, GOAL 2E herbicide should be applied at 20 to 25 psi using 20 to 40 gallons of spray on a broadcast acre basis. Do not exceed 25 psi. Spray should be directed towards the base of the cotton plant. Cotton foliage receiving accidental spray or drift may be injured. Weeds should be in the seedling stage, young and actively growing.

GOAL 2E herbicide can be applied using a post-direct spray rig with only 2 flat fan nozzles per row, 1 nozzle on each side of the row. Additional care should be taken when adjusting sprayer prior to application. For best coverage, it is suggested to use 4 flat fan nozzles per row, 2 nozzles on each side of the row. The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer system, nozzles should be adjusted to cover the weed foliage with minimum contact to the cotton plant. Do not use cone nozzles.

**TANK MIXES WITH GOAL 2E HERBICIDE**

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for tank mixtures, the most restrictive situations must apply.

**DOSAGE**

For postemergence control of susceptible grassy and broadleaf weeds in cotton, a tank mixture of GOAL 2E herbicide with Bladex®, Caporal®, Caporal plus, Cotoran®, Cotoran plus, dinitro, Karmex®, Lorox®, MSMA or Probe can be applied as a post-directed application. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

**RATE OF PRODUCT PER BROADCAST ACRE**

PRODUCT	RATE PER ACRE
Bladex 4L	1.2 to 2 pts.
Caporal 4L	1 to 1.3 pts.
Caporal PLUS	4 pts.
Cotoran 80W	1 to 2.5 lbs.
Cotoran PLUS	4 pts.
Karmex 80W	0.25 to 0.5 lb.
Lorox 4L	1 to 1.5 pts.
MSMA 6.6	2.4 pts.
Probe	0.66 to 2.0 lbs.

**COTTON — SOUTHERN AND WESTERN SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- **SOUTHERN COTTON:** Do not apply more than 2 pints (0.5 lb. active) per broadcast acre of GOAL 2E herbicide per season as a result of a single application or multiple applications.
- **WESTERN COTTON:** Do not apply more than 2 pints (0.5 lb. active) of GOAL 2E herbicide per broadcast acre in a single application, or more than a total of 4 pints (1.0 lb. active) of GOAL 2E herbicide per broadcast acre per season as a result of multiple applications.
- Do not spray GOAL 2E herbicide after initiation of bloom.

**COTTON FALLOW BED AIR APPLICATION**

**FOR USE ONLY IN ARIZONA AND CALIFORNIA TREATMENTS MUST BE MADE OCTOBER 1 THROUGH MARCH 31.**

**GENERAL INFORMATION**

GOAL 2E herbicide is effective as a preemergence herbicide when used alone or as a postemergence herbicide when applied in a tank mix combination with Roundup or Gramoxone Super for the control of winter annual broadleaf weeds in fallow beds. Do not apply within 14 days of planting. The fallow bed should be worked with a harrow, or similar incorporation tool, to a depth of at least 2 inches prior to planting. It is important to thoroughly break the soil surface prior to planting; weed control should not be expected following breaking of the soil surface.

**EXERCISE EXTREME CARE TO AVOID HERBICIDE CONTACT WITH ANY DESIRABLE DORMANT OR NON-DORMANT CROP, PLANT, TREE OR VEGETATION, AS SEVERE INJURY MAY RESULT.**

Cotton can be planted 14 days or more following a GOAL 2E herbicide fallow bed application.

**GOAL 2E HERBICIDE USED ALONE**

**DOSAGE**

GOAL 2E herbicide, may be applied at 1 to 2 pints (0.25 to 0.5 lb. active) per broadcast acre. The lower rate (1 pint per acre) should provide up to 4 weeks of preemergence control of susceptible weeds and provide postemergence activity on susceptible weeds (up to 4 leaf stage). The higher rate (2 pints per acre) should provide preemergence control of susceptible weeds for up to 8 weeks and postemergence activity on susceptible weeds up to the 6 leaf stage. Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks following application.

**WEEDS CONTROLLED**

GOAL 2E herbicide will provide preemergence and postemergence\* control of the following weeds when used at recommended dosages and weed stage.

- |                    |                    |
|--------------------|--------------------|
| CHEESEWEED (MALVA) | MUSTARD, BLACK     |
| FIDDLENECK, COAST  | NETTLE, BURNING    |
| FILAREE, BROADLEAF | REDMAIDS           |
| FILAREE, REDSTEM   | ROCKET, LONDON     |
| GROUNDSEL, COMMON  | SHEPHERDSPURSE     |
| HENBIT             | SOWTHISTLE, ANNUAL |
| MINERSLETTUCE      |                    |

\*Thorough spray coverage is essential to maximize the postemergence activity of GOAL 2E herbicide. For postemergence control, a tank mixture of GOAL 2E herbicide with Roundup or Gramoxone Super is recommended.

**AERIAL APPLICATION**

GOAL 2E herbicide should be applied using swirl jet or hollow cone nozzles and a spray pressure less than 40 psi to deliver a minimum spray volume of 10 gallons of water per acre (minimum 5 gallons for GOAL 2E/Roundup tank mix). Application should be made at a height of 6 to 10 feet above the soil surface. It is suggested that the nozzles on the spray booms should not be placed any closer to the wing or rotor tips than 3/4 of the span; this will minimize the formation of spray or wing tip vortices. Nozzles should be spaced and positioned to produce a uniform spray pattern and to minimize or eliminate the formation of droplets 100 microns or less in diameter.

**AVOID DRIFT**

WHEN APPLYING TO FALLOW BEDS, EXTREME CARE MUST BE EXERCISED TO PREVENT SPRAY DRIFT WHICH COULD RESULT IN DAMAGE TO OTHER CROPS OR DESIRABLE VEGETATION. USE THE FOLLOWING GUIDELINES WHEN AERIAL APPLICATIONS ARE TO BE MADE:

1. Do not apply when the wind direction is not stable, when inversion conditions exist, or when wind velocity exceeds 10 mph.
2. When wind speeds are 5 mph or less, maintain a minimum downwind buffer zone of at least 1/2 mile from all crops and desirable vegetation, except the following:
  - Maintain a minimum downwind buffer zone of:
    - 150 feet from dormant treefruit, dormant vines and overwintering sugarbeets.
    - 650 feet from garlic, jojoba, legumes, onions, pastures, small grains, seedling sugarbeets, and vegetable fallow beds.
3. When wind speeds are between 5 to 10 mph, downwind buffer zones in excess of those listed above are suggested.
4. For upwind and side borders, maintain a minimum buffer zone of 150 feet from any vegetable fallow bed, crop, or desirable vegetation.

The use of a drift control agent may be required by local regulations. However, the drift control agent may decrease the weed control activity.

**IMPORTANT**

Aerial applicators must be familiar with the EPA-registered label and follow the use precautions. Spraying GOAL 2E herbicide in a manner other than as recommended is done at the user's risk. Users are responsible for all loss or damage that results from such spraying. In addition, aerial applicators should follow all applicable state and local regulations and ordinances. In interpreting the label and local regulations, the most restrictive situations should apply to avoid drift hazards.



**GOAL 2E HERBICIDE — TANK MIX**

**DOSAGE**

GOAL 2E herbicide can be tank mixed with Roundup or Gramoxone Super to obtain postemergence control of annual grassy weeds, volunteer grains and broadleaf weeds.

**GOAL 2E/ROUNDUP TANK MIX**

Tank mix 1 to 2 pints (0.25 to 0.5 lb. active) of GOAL 2E herbicide with 0.75 to 1.0 pint (0.38 to 0.5 lb. active) of Roundup for each acre treated. Apply in a minimum of 5 gallons of water per acre at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

**GOAL 2E/GRAMOXONE SUPER TANK MIX**

Tank mix 1 to 2 pints (0.25 to 0.5 lb. active) of GOAL 2E herbicide with 1.5 to 5 pints (0.28 to .93 lb. active) of Gramoxone Super for each acre treated. Apply in a minimum of 10 gallons of water per acre at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

**COTTON FALLOW BED AIR APPLICATION  
SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- DO NOT AERIALY APPLY GOAL 2E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO FALLOW BEDS BEFORE OCTOBER 1 OR AFTER MARCH 31.
- Do not apply more than 2 pints (0.5 lb. active) of GOAL 2E herbicide per acre, per fallow season.
- Do not apply GOAL 2E herbicide within 14 days of planting.

**COTTON FALLOW BED  
GROUND APPLICATION**

**GENERAL INFORMATION**

GOAL 2E is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with Roundup or Gramoxone Super for the control of winter annual broadleaf weeds in fallow beds. Do not apply within 14 days of planting. The fallow bed should be worked with a Lilliston, or similar incorporation tool, to a depth of at least 2 inches prior to planting. It is important to thoroughly break the soil surface prior to planting; weed control should not be expected following breaking of the soil surface.

Cotton can be planted 14 days or more following a GOAL 2E herbicide fallow bed application.

**GOAL 2E HERBICIDE USED ALONE**

**DOSAGE**

GOAL 2E herbicide should be used at 1 to 2 pints (0.25 to 0.5 lb. active) per broadcast acre. The lower rate (1 pint per acre) should provide postemergence control of susceptible weeds (up to 4 leaf stage) and provide up to 4 weeks of preemergence control of susceptible weeds. The higher rate (2 pints per acre) should provide postemergence control of susceptible weeds (up to 6 leaf stage) and preemergence control of susceptible weeds for up to 8 weeks. Best preemergence control is achieved when pre-irrigation or rainfall occurs within 3 or 4 weeks following application.

**WEEDS CONTROLLED**

GOAL 2E herbicide will provide preemergence and postemergence control of the following weeds when used at recommended dosages and weed stage.

- |                    |                    |
|--------------------|--------------------|
| CHEESEWEED (MALVA) | MINERSLETTUCE      |
| FIDDLENECK, COAST  | MUSTARD, BLACK     |
| FILAREE, BROADLEAF | NETTLE, BURNING    |
| FILAREE, REDSTEM   | REDMAIDS           |
| GROUNDSEL, COMMON  | ROCKET, LONDON     |
| HENBIT             | SOWTHISTLE, ANNUAL |

GOAL 2E is a contact herbicide, therefore, coverage is essential for acceptable postemergence control. If dense weed populations, oversized weed seedlings, volunteer grains, annual grasses or unfavorable environmental conditions exist, a tank mixture of GOAL 2E herbicide with Gramoxone Super or Roundup for postemergence control is recommended.

**METHOD OF APPLICATION**

GOAL 2E herbicide should be applied in a minimum of 20 gallons of water per acre. The volume of water used should be increased as the weeds become taller and more dense. Use a low pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

**TANK MIXES WITH GOAL 2E HERBICIDE**

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mix, the most restrictive situations must apply.

**DOSAGE**

GOAL 2E herbicide can be tank mixed with Gramoxone Super or Roundup to obtain postemergence control of annual grassy weeds. Tank mix 1 to 2 pints (0.25 to 0.5 lb. active) of GOAL 2E herbicide with 1.5 to 5 pints (0.28 to .93 lb. active) of Gramoxone Super or 0.75 to 1.0 pint (0.38 to 0.5 lb. active) of Roundup for each acre treated. Refer to the "Preplant or Preemergence Uses" section on the Gramoxone Super label or the FALLOW AND REDUCED TILLAGE SYSTEM section on the Roundup label for specific use directions and restrictions. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

**COTTON FALLOW BED GROUND APPLICATION  
SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Do not apply more than 2 pints (0.5 lb. active) of GOAL 2E herbicide per acre, per fallow season.
- Do not apply GOAL 2E herbicide within 14 days of planting.

**FALLOW LAND**

**FOR USE ONLY IN IDAHO, OREGON AND  
WASHINGTON**

**GENERAL INFORMATION**

GOAL 2E herbicide is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with Roundup for the control of certain annual broadleaf weeds in a fallow land system. GOAL 2E herbicide can be used as an effective tool to reduce weed growth prior to the establishment of a dry soil mulch. Use of this product is restricted to summer fallow land that will be planted back the following year to winter wheat, barley or oats.

**GOAL 2E HERBICIDE USED ALONE**

**DOSAGE**

GOAL 2E herbicide should be used at 0.5 to 2 pints (0.13 to 0.5 lb. active) per broadcast acre.

**WEEDS CONTROLLED**

GOAL 2E herbicide will provide postemergence control and preemergence activity of the following broadleaf weeds when used at recommended dosages.

- |                   |                    |
|-------------------|--------------------|
| FIDDLENECK, COAST | MUSTARD, TUMBLE    |
| HENBIT            | (JIM HILL MUSTARD) |
| LETTUCE, PRICKLY  | PIGWEEED, REDROOT  |
| (CHINA LETTUCE)   | PURSLANE, COMMON   |
| MUSTARD, BLUE     | SHEPHERDSPURSE     |
| (PURPLE MUSTARD)  | SOWTHISTLE, ANNUAL |

**TIMING AND METHOD OF APPLICATION**

The most effective postemergence weed control is achieved when GOAL 2E herbicide is applied to seedling weeds (less than 4 inches in height). Seedling weeds are controlled as they come in contact with the soil-applied herbicide during emergence.

GOAL 2E herbicide should be applied in 20 to 40 gallons of water per acre depending upon density of emerged weeds. Use a low pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

**TANK MIXES WITH GOAL 2E HERBICIDE**

**DOSAGE**

For postemergence control of annual grassy weeds, GOAL 2E herbicide can be tank mixed with Roundup. Tank mix 0.5 to 2 pints (0.12 to 0.5 lb. active) of GOAL 2E herbicide with 0.75 to 1 pint (0.38 to 0.5 lb. active) of Roundup for each acre treated. Refer to the "Fallow and Reduced Tillage System" section on the Roundup label for specific use directions and restrictions.

Fill the spray tank at least one-third full of clean water and add the recommended amounts of GOAL 2E herbicide and Roundup. The pump and agitator are running. Complete filling of the spray tank with water. Add 1 quart of TRITON AG-98 or comparable 80% active nonionic surfactant cleared for use on growing crops, per 100 gallons of spray. Maintain agitation until spraying is complete.

### FALLOW LAND — SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

## MINT SPEARMINT/PEPPERMINT

### FOR USE ONLY IN IDAHO, OREGON AND WASHINGTON

#### GENERAL INFORMATION

GOAL 2E is a selective herbicide for the control of certain annual grasses and broadleaf weeds in spearmint and peppermint grown in Idaho, Oregon and Washington. Applications should only be made to spearmint and peppermint that are dormant.

#### METHOD OF APPLICATION

Application must be made prior to new spring growth or severe crop injury may result. GOAL 2E herbicide should be thoroughly mixed with clean water at recommended concentration and applied at 20 to 40 psi in 20 to 40 gallons of water per acre.

#### WEEDS CONTROLLED

When GOAL 2E herbicide is applied as a dormant application at recommended dosages in spearmint and peppermint, the following annual weeds are controlled:

BEDSTRAW, CATCHWEED	NIGHTSHADE, HAIRY
*BLUEGRASS, ANNUAL	*OATS, WILD
FLIXWEED	ORACH, RED
GROUNDSL, COMMON	PEPPERWEED, YELLOWFLOWER
LAMBSQUARTERS, COMMON	PIGWEEED, REDROOT
LETTUCE, PRICKLY (CHINA LETTUCE)	*RYEGRASS, ITALIAN
MUSTARD, BLUE (PURPLE MUSTARD)	SHEPHERDSPURSE
MUSTARD, TUMBLE (JIM HILL MUSTARD)	SOWTHISTLE, ANNUAL
	TANSYMUSTARD
	THISTLE, RUSSIAN

\*Control of annual grasses is best obtained when GOAL 2E herbicide is applied prior to emergence. Postemergence control of winter annual grasses is generally unsatisfactory if applications are made after the 1 to 2 leaf stage.

### WESTERN OREGON

#### PEPPERMINT

Apply 3 to 6 pints (0.75 to 1.5 lb. active) of GOAL 2E herbicide from November through February to dormant peppermint only. Treatments in January or February generally provide better residual preemergence control of annual broadleaf weeds.

### OREGON AND WASHINGTON (EAST OF CASCADES) AND WESTERN IDAHO

#### SPEARMINT AND PEPPERMINT

Apply 4 to 8 pints (1 to 2 lb. active) of GOAL 2E herbicide from December through March to dormant mint only. Later winter applications will provide maximum activity on summer weeds. Summer grass control may be inconsistent. For best results, fall-plowed fields should be harrowed to provide a smooth surface prior to application. Plowed fields should not be harrowed after GOAL 2E herbicide has been applied, as soil disturbance will decrease the herbicidal effectiveness. In furrow-irrigated fields, corrugating must be done prior to application. Corrugating after application can cover treated rows with untreated soil, resulting in poor weed control.

### MINT (SPEARMINT AND PEPPERMINT) SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Apply GOAL 2E herbicide only to healthy spearmint and peppermint. Do not apply to spearmint or peppermint that has been weakened by disease, nematodes, soil insects, or winter injury, as severe injury may result.

## SOYBEANS

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### NOT FOR USE IN CALIFORNIA

#### GENERAL INFORMATION

GOAL 2E is effective as a preemergence and postemergence (post-directed) herbicide for the control of broadleaf weeds in soybeans. Applications can be made early preplant in conservation tillage soybeans, preemergence in no-till (double-crop) and conventional soybeans, or post-directed in conventional till soybeans. Seedling weeds are controlled as they come in contact with the herbicide either during emergence or through a post-directed application. Follow specific use directions and restrictions for recommended use and timing of applications.

Soybeans are tolerant to preemergence and post-directed applications of recommended dosages of GOAL 2E herbicide; however, under certain conditions, GOAL 2E herbicide can cause temporary injury. Heavy splashing rain shortly after crop emergence or cold, wet soil conditions during early growth stages can produce leaf cupping and crinkling. When injury occurs, it is generally limited to the first few leaves that develop shortly after crop plants emerge from the soil. Soybeans recover from this injury and yields are not adversely affected. Soybean leaves that are accidentally sprayed during a post-directed application will exhibit necrotic spotting and injury to the soybean plant. Therefore, care must be exercised to avoid spray contact with the soybean leaves.

#### DOSAGE AND TIMING

#### CONSERVATION TILLAGE

#### SOYBEANS EARLY PREPLANT

GOAL 2E herbicide is effective for preemergence and postemergence control of susceptible broadleaf weeds when surface applied at 1.5 to 3.0 pints (0.38 to 0.75 lb. active) per broadcast acre to the stale seedbed prior to the planting of conservation tillage soybeans. It is suggested that applications be made approximately 14 days prior to planting. The higher rate of 2.0 to 3.0 pints (0.5 to 0.75 lb. active) will assist in early season annual grass control. However, GOAL 2E herbicide must not be a basic portion of the grass herbicide program. A planned program utilizing herbicides registered for early preplant, preemergence or postemergence grass control in soybeans is recommended.

The use of ridge or slot planters or other planting equipment that results in minimal soil disturbance is recommended. Soil surfaces should not be disturbed as the herbicidal effectiveness of GOAL 2E may be decreased. Seedling weeds are controlled as they come in contact with the soil-applied herbicide during emergence. Timely cultivations will usually assist in weed control.

#### NO-TILL (DOUBLE-CROP) SOYBEANS

#### PREEMERGENCE

GOAL 2E herbicide is effective for preemergence and postemergence control of susceptible broadleaf weeds when applied at 0.5 to 2 pints (0.12 to 0.5 lb. active) per broadcast acre.

For postemergence control of certain grassy and broadleaf weeds a tank mix of either Gramoxone Super or Roundup with GOAL 2E herbicide can be used.

For residual grass control in no-till soybeans, a tank mixture of Bronco®, Dual, Lasso, or Surflan with GOAL 2E herbicide or combinations of GOAL 2E herbicide plus Gramoxone Super or Roundup can be used. Follow specific use directions and restrictions for these combination tank mixes.

Application should be made within one day after planting. Later applications may result in severe crop injury and are not recommended.

#### WEEDS CONTROLLED PREEMERGENCE

GOAL 2E herbicide used alone, at recommended dosages, provides preemergence control of the following broadleaf weeds:

*GROUNDCHERRY, CUTLEAF	POINSETTIA, WILD
JIMSONWEED	SHEPHERDSPURSE
LAMBSQUARTERS, COMMON	SIDA, PRICKLY (TEAWEED)
*NIGHTSHADE, AMERICAN BLACK	SMARTWEED, PENNSYLVANIA
*NIGHTSHADE, BLACK	*SOWTHISTLE, COMMON
PIGWEEED, REDROOT	VELVETLEAF

\*Suppression of this weed occurs when GOAL 2E herbicide is applied at the reduced rate recommended for the GOAL 2E/metribuzin tank mix combination.

## WEEDS CONTROLLED POSTEMERGENCE<sup>1</sup> (POST-DIRECTED APPLICATION)

When GOAL 2E herbicide is applied as a post-directed application at the recommended weed stage and dosage in soybeans, the following weeds are controlled:

COCKLEBUR, COMMON	NIGHTSHADE, HAIRY
CROTON, TROPIC	PIGWEEED, RE. ROOT
GROUNDCHERRY, CUTLEAF	*POINSETTIA, WILD
GROUNDCHERRY, WRIGHT	PURSLANE, COMMON
JIMSONWEED	SESBANIA, HEMP
LAMBSQUARTERS, COMMON	SHEPHERDSPURSE
MORNINGGLORY, ANNUAL (UP TO 6 LEAF)	**SICKLEPOD
MUSTARD, WILD	*SIDA, PRICKLY (TEAWEED)
NIGHTSHAL C, AMERICAN BLACK	SMARTWEED, PENNSYLVANIA
NIGHTSHADE, BLACK	VELVETLEAF

\*Multiple applications may be required for acceptable control.

\*\*Post-directed applications of GOAL 2E herbicide will kill or suppress seedlings not exceeding the one true leaf stage.

Two pints of TRITON AG-98, or comparable 80% active nonionic surfactant cleared for application to growing crops, per each 100 gallons of spray solution are suggested in all tank mixtures containing GOAL 2E herbicide when postemergence weed control is desired.

### TANK MIXES WITH GOAL 2E HERBICIDE

GOAL 2E herbicide when applied at 0.6 to 0.8 pint (0.16 to 0.2 lb. active) per acre as a tank mix combination with metribuzin (Sencor® DF or Lexone® DF) at 0.33 lb. product (0.25 lb. active) per acre, is effective for preemergence control of susceptible broadleaf weeds. Do not apply this tank mix to sandy soils or coarse soils (sandy loam or loamy sand) containing less than 2% organic matter. Do not use on soils with less than 1/2% organic matter, or on alkaline soils with a pH above 7.4 as crop injury may occur. Application should be made within one day following planting. Later applications may result in severe crop injury and are not recommended. The GOAL 2E/metribuzin herbicide tank mix may be applied as a preemergence application following a preplant incorporated grass herbicide treatment or as a three-way tank mix in a preemergence application with either Dual, Lasso or Surflan.

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

### DOSAGE

Refer to the following tables for labeled use rates.

### NO-TILL (DOUBLE-CROP) SOYBEANS

#### PREEMERGENCE

RATE OF PRODUCT PER BROADCAST ACRE (PINTS PER ACRE)

Soil Texture	GOAL 2E	Dual 8E*	Lasso 4E*	Surflan A.S.**	Gramoxone		
					Super	Roundup	Bronco*
Coarse	0.5 to 1.5	1.5	4.0 to 5.0	1.5	1.0 to 2.0	2.0 to 3.0	6.5 to 10.0
Medium	0.5 to 2.0	2.0	5.0 to 6.0	2.0	1.0 to 2.0	2.0 to 3.0	8.0 to 10.0
Fine	0.5 to 2.0	2.0 to 2.5	5.0 to 6.0	3.0	1.0 to 2.0	2.0 to 3.0	8.0 to 10.0
Muck or Peat	***	***	***	***	***	***	***

\*Use the higher rate of Bronco, Dual or Lasso on soils containing more than 3% organic matter.

\*\*When using Surflan 75 WP, multiply pints by 0.67 to obtain the amount of Surflan 75 WP product required. Do not use Surflan on soils containing more than 5% organic matter.

\*\*\*Do not use.

### CONVENTIONAL TILLED SOYBEANS

#### PREEMERGENCE

GOAL 2E herbicide is effective for preemergence control of susceptible broadleaf weeds when applied at 1 to 1.5 pints (0.25 to 0.38 lb. active) per broadcast acre. Application should be made within one day of planting. Later applications may result in severe crop injury and are not recommended. The higher rate (0.38 lb. active) will assist in early season annual grass control. However, GOAL 2E herbicide must not be a basic portion of the grass herbicide program. GOAL 2E herbicide may be applied alone as a preemergence application following a preplant incorporated grass herbicide treatment or as a tank mix in a preemergence application with Dual, Lasso or Surflan.

## CONVENTIONAL TILLED SOYBEANS PREEMERGENCE

RATE OF PRODUCT PER BROADCAST ACRE (PINTS PER ACRE)

Soil Texture	GOAL 2E	Dual 8E*	Lasso 4E*	Surflan A.S.**	Metribuzin DF****
					(lbs. PER ACRE)
Coarse	0.6 to 1.5	1.25 to 1.5	3.0 to 4.0	1.0 to 1.5	0.33
Medium	0.6 to 1.5	1.5 to 2.0	4.0 to 6.0	1.5 to 2.0	0.33
Fine	0.6 to 1.5	2.0 to 2.5	4.0 to 6.0	2.0 to 2.5	0.33
Muck or Peat	***	***	***	***	***

\*Use the higher rate of Bronco, Dual or Lasso on soils containing more than 3% organic matter.

\*\*When using Surflan 75 WP, multiply pints by 0.67 to obtain the amount of Surflan 75 WP product required. Do not use Surflan on soils containing more than 5% organic matter.

\*\*\*Do not use.

\*\*\*\*Sencor DF or Lexone DF.

### WEEDS CONTROLLED PREEMERGENCE

When GOAL 2E herbicide is tank mixed with Bronco, Dual, Lasso or Surflan and applied preemergence, in addition to the weeds controlled preemergence by GOAL 2E herbicide alone, control of the following weeds is also obtained:

BARNYARDGRASS	JOHNSONGRASS, SEEDLING
CRABGRASS, LARGE	PANICUM, FALL
FOXTAIL, GIANT	RAGWEED, COMMON
FOXTAIL, YELLOW	SIGNALGRASS, BROADLEAF

### WEEDS CONTROLLED POSTEMERGENCE

When GOAL 2E herbicide is tank mixed with Bronco, Gramoxone Super or Roundup and applied postemergence, in addition to the weeds controlled postemergence by GOAL 2E herbicide alone, control of the following weeds is also obtained:

BLUEGRASS, ANNUAL	FOXTAIL, YELLOW
CRABGRASS, LARGE	LAMBSQUARTERS, COMMON
FOXTAIL, GIANT	RAGWEED, COMMON
FOXTAIL, GREEN	SANDBUR, FIELD

### TIMING AND METHOD OF APPLICATION

As a preemergence treatment, apply in 20 to 60 gallons of water per acre. If Bronco or Roundup are included in the tank mix, apply in 20 to 40 gallons of water per acre. To insure complete coverage, spray volume should be increased as the density of emerged weeds, crop residue or stubble increases. Use conventional spray equipment with flat fan or flood jet nozzles. Spray equipment should be calibrated carefully before each use.

### POST-DIRECTED SPRAY

#### GOAL 2E HERBICIDE USED ALONE

##### DOSAGE

GOAL 2E herbicide is recommended as a post-directed application at 1 pint (0.25 lb. active) per acre. Optimum control is achieved when GOAL 2E herbicide is applied to seedling weeds not exceeding 4 true leaves. See "Mixing Directions" for surfactant recommendations. Weeds should be in the seedling stage, young and actively growing. Do not count cotyledon leaves.

### TANK MIXES WITH GOAL 2E HERBICIDE

For improved broadleaf weed control, a tank mixture of GOAL 2E herbicide plus Butoxone® or Butyrac® 200 is suggested. Use 1 pint of GOAL 2E herbicide (0.25 lb. active) with 1 pint of Butoxone (0.22 lb. active) or 0.7 to 0.9 pint of Butyrac 200 (0.175 to 0.22 lb. active) per broadcast acre. See "Mixing Directions" for surfactant recommendations. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

### TIMING

Soybean plant height must be a minimum 8 inches or greater. Use branch lifters or shields if excessive spray contact to the soybean plant cannot be avoided.

**METHOD OF APPLICATION**

Accurate, uniform placement of GOAL 2E herbicide is essential for effective weed control and to minimize soybean injury. As a directed postemergence application, GOAL 2E herbicide should be applied at 20 to 25 psi using 20 to 40 gallons of spray on a broadcast acre basis. Do not exceed 25 psi. Spray should be directed towards the base of the soybean plant. Soybean foliage receiving accidental spray or drift may be injured. Weeds should be in the seedling stage, young and actively growing.

GOAL 2E herbicide can be applied using a post-direct spray rig with only 2 flat fan nozzles per row, 1 nozzle on each side of the row. Additional care should be taken when adjusting the sprayer prior to application. For best coverage, it is suggested to use 4 flat fan nozzles per row, 2 nozzles on each side of the row. The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer system, nozzles should be adjusted to cover the weed foliage with minimum contact to the soybean plant. Do not use cone nozzles.

**TANK MIXTURE OF GOAL 2E HERBICIDE WITH COMMAND® 6EC**

**SOYBEANS (NOT FOR USE IN CALIFORNIA)**

GOAL 2E herbicide when applied preemergence at 0.65 to 0.8 pint (0.16 to 0.2 lb. active) per acre in a tank mix combination with Command 6EC (EPA Reg. No. 279-3054) at 1 to 1 2/3 pints (0.75 to 1.25 lb. active) is effective for the control of susceptible annual grass and broadleaf weeds in soybeans. Application should be made within one day following planting. Later applications may result in severe crop injury and are not recommended.

**WEEDS CONTROLLED PREEMERGENCE**

A tank mix of GOAL 2E herbicide with Command 6EC at recommended dosages, provides preemergence control of the following weeds:

**GRASS WEEDS**

- BARNYARDGRASS
- SIGNALGRASS, BROADLEAF (BRACHIARIA)
- CRABGRASS (CRABGRASS, LARGE) (CRABGRASS, SMOOTH)
- SANDBUR, FIELD
- FOXTAIL (FOXTAIL, GREEN) (FOXTAIL, GIANT) (FOXTAIL, YELLOW) (FOXTAIL, ROBUST PURPLE)
- GOOSEGRASS
- JOHNSONGRASS (SEEDLING)
- PANICUM (PANICUM, FALL) (PANICUM, TEXAS)
- CUPGRASS, SOUTHWEST
- CUPGRASS, WOOLLY

**BROADLEAF WEEDS**

- \*NIGHTSHADE, BLACK
- PURSLANE, COMMON
- \*SOWTHISTLE, COMMON
- \*GROUNDCHERRY, CUTLEAF
- PUSLEY, FLORIDA
- BEGGARWEED, FLORIDA
- JIMSONWEED
- LAMBSQUARTERS
- SMARTWEED, PENNSYLVANIA
- SIDA, PRICKLY
- PIGWEEED, REDROOT
- SHEPHERDSPURSE
- CROTON, TROPIC
- VELVETLEAF
- MALLOW, VENICE

\*Suppression

**SOYBEANS — SPECIFIC ENVIRONMENTAL HAZARDS**

This product is highly toxic to freshwater clams, oysters, aquatic invertebrates and aquatic plants. Do not apply GOAL 2E herbicide where visible erosion to aquatic habitats and/or wetlands occurs. (See container for further information on Environmental Hazards.)

**SOYBEANS — SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- Do not make more than two applications of GOAL 2E herbicide per growing season.
- Do not apply more than 2 pints (0.5 lb. active) of GOAL 2E herbicide per acre during one growing season as a result of preemergence application in no-till (double-crop) or conventional till soybeans, or post-directed in conventional till soybeans. If early preplant application is made, do not apply more than 3 pints (0.75 lb. active) of GOAL 2E herbicide per acre during one growing season.
- Do not apply a post-directed application of GOAL 2E herbicide to soybeans after the initial appearance of blooms.

**TREEFRUIT/NUT/VINE**

**DORMANT APPLICATION**

- ALMOND, APPLE, APRICOT, AVOCADO, BEECHNUT, BRAZIL NUT, BUTTERNUT, CASHEW, CHERRY, CHESTNUT, CHINQUAPIN, CRAB APPLE, DATE, FIG, FILBERT, GRAPES, HICKORY NUT, KIWI, LOQUAT, MACADAMIA NUT, NECTARINE, OLIVES, PEACH, PEAR, PECAN, PISTACHIO, PLUM, POMEGRANATES, PRUNE, QUINCE, WALNUT

**GENERAL INFORMATION**

GOAL 2E is effective as a preemergence and/or postemergence herbicide when used alone or in recommended combinations, for the control of certain annual broadleaf weeds, in certain bearing and nonbearing treefruit, nut or vine plantings.

The most effective postemergence weed control is achieved when GOAL 2E herbicide is applied to seedling weeds. For postemergence control of certain grassy and broadleaf weeds, a tank mixture of GOAL 2E herbicide with either Gramoxone Super or Roundup can be used.

For residual grass control in dormant treefruit, nut or vine plantings, a tank mixture of GOAL 2E herbicide with Devrinol, Karmex, KERB®, simazine, Solicam or Surflan can be applied. Contact herbicides such as Gramoxone Super or Roundup may also be added to the tank mixture.

Check individual product labels to determine suitability and use rates for various crops.

**GOAL 2E HERBICIDE USED ALONE**

**GEOGRAPHIC USE DIRECTIONS**

**ARIZONA AND CALIFORNIA**

**DOSAGE**

Goal 2E herbicide is recommended for postemergence control at 2 to 8 pints (0.5 to 2.0 lb. active) per broadcast acre.

**WEEDS CONTROLLED POSTEMERGENCE (weeds up to 4 inches high)** — Apply 2 to 8 pints (0.5 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre. Applications to weeds beyond this 4 inch stage may result in partial control.

- |                     |                    |
|---------------------|--------------------|
| CHEESEWEED (MALVA)  | MINERSLETTUCE      |
| FIDDLENECK, COAST   | NETTLE, BURNING    |
| *FILAREE, BROADLEAF | PIGWEEED, REDROOT  |
| *FILAREE, REDSTEM   | REDMAIDS           |
| *FILAREE, WHITESTEM | SHEPHERDSPURSE     |
| GROUNDSEL, COMMON   | SOWTHISTLE, ANNUAL |
| HENBIT              |                    |

\*GOAL 2E herbicide at the 8 pint rate (2.0 lb. active) will provide control of filaree not exceeding the 4 inch stage. Applications to filaree beyond the 4 inch stage may result in partial control.

**WEEDS CONTROLLED PREEMERGENCE** — Apply 6 to 8 pints (1.2 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

- |                     |                       |
|---------------------|-----------------------|
| BURCLOVER           | LAMBSQUARTERS, COMMON |
| CHEESEWEED (MALVA)  | LETTUCE, PRICKLY      |
| FIDDLENECK, COAST   | PIGWEEED, REDROOT     |
| FILAREE, BROADLEAF  | PURSLANE, COMMON      |
| FILAREE, REDSTEM    | REDMAIDS              |
| FILAREE, WHITESTEM  | ROCKET, LONDON        |
| GROUNDSEL, COMMON   | SHEPHERDSPURSE        |
| HENBIT              | SOWTHISTLE, ANNUAL    |
| KNOTWEED, PROSTRATE |                       |

**ALL OTHER STATES (EXCEPT CALIFORNIA AND ARIZONA)**

**DOSAGE**

GOAL 2E herbicide is recommended for postemergence control at 2 to 8 pints (0.5 to 2.0 lb. active) per broadcast acre. For preemergence control of susceptible weeds, use 4.8 to 8 pints (1.2 to 2.0 lb. active) per broadcast acre.

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**WEEDS CONTROLLED POSTEMERGENCE** Apply 2 to 8 pints (0.5 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre. The lower rate is recommended for the control of susceptible seedling weeds in the early postemergence stage up to the 4 leaf stage. The higher rate (2.0 lb. active) should be used for weeds up to the 6 leaf stage. Applications to weeds beyond the 6 leaf stage may result in partial control.

BALSAMAPPLE  
COCKLEBUR, COMMON  
\*CUDWEED, NARROWLEAF  
\*\*EVENINGPRIMROSE, CUTLEAF  
GROUNDCHERRY, CUTLEAF  
GROUNDCHERRY, WRIGHT  
JIMSONWEED  
LAMBSQUARTERS, COMMON  
MORNINGGLORY, ANNUAL  
NIGHTSHADE, AMERICAN BLACK  
NIGHTSHADE, BLACK

PEPPERWEED, VIRGINIA  
PIGWEED, REDROOT  
POINSETTIA, WILD  
PURSLANE, COMMON  
SESBANIA, HEMP  
SHEPHERDSPURSE  
SIDA, PRICKLY (TEAWEED)  
SMARTWEED, PENNSYLVANIA  
SOWTHISTLE, ANNUAL  
VELVETLEAF

\*Maximum 0.5 inch diameter.

\*\*Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 8 pints (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.

**WEEDS CONTROLLED PREEMERGENCE** — Apply 6 to 8 pints (1.2 to 2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

CAMPHORWEED  
CUDWEED, NARROWLEAF  
\*\*EVENINGPRIMROSE, CUTLEAF  
GROUNDCHERRY, CUTLEAF  
JIMSONWEED  
LAMBSQUARTERS, COMMON  
NIGHTSHADE, AMERICAN BLACK  
NIGHTSHADE, BLACK  
PEPPERWEED, VIRGINIA

PIGWEED, REDROOT  
POINSETTIA, WILD  
SIDA, PRICKLY  
SMARTWEED, PENNSYLVANIA  
SOWTHISTLE, ANNUAL  
SPURGE, PROSTRATE  
SPURGE, SPOTTED  
VELVETLEAF

\*\*Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 8 pints (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.

**ALL STATES**

**TIMING AND METHOD OF APPLICATION**

In Arizona and California, applications of GOAL 2E herbicide should be made October 1 through February 15. In Coachella Valley (California), do not apply to grapes after February 1.

In all states, dormancy determines the suitability and safety of using GOAL 2E herbicide in treefruit, nut and vine plantings. Do not apply GOAL 2E herbicide after buds start to swell or when fruit/nuts are present.

As a preemergence treatment, apply a minimum of 40 gallons of water per acre. Use higher volumes to assure adequate coverage in high densities of emerged weeds or heavy trash. Best preemergence results are achieved when spray is applied to a relatively weed-free established berm or soil surface. GOAL 2E herbicide should be directed to the soil and the base of dormant trees or vines. Use a low-pressure sprayer equipped with a breakaway boom and flat fan nozzles. An off center (OC) nozzle positioned at the end of the boom may be desired. See SPECIFIC USE RESTRICTIONS for GOAL 2E herbicide application on dormant tree or vine plantings.

SPRAY VOLUME: Weed Stage	Gallons of Water per Acre
Preemergence	40 or more
Postemergence (up to 4 inch or 4 leaf stage)	40 or more
Exceeding 4 inch or 4 leaf stage	100 or more

**TANK MIXES WITH GOAL 2E HERBICIDE**

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

**DOSAGE**

For preemergence control of susceptible grassy and broadleaf weeds in certain dormant treefruit, nut crops and vines, a tank mixture of GOAL 2E herbicide with Devrinol, Karmex, KERB, simazine, Solicam or Surflan can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

For postemergence control of susceptible grassy and broadleaf weeds in certain dormant treefruit, nut crops and vines, a tank mixture of Gramoxone Super or Roundup with GOAL 2E herbicide or combinations of GOAL 2E herbicide plus Devrinol, Karmex, KERB, simazine, Solicam or Surflan with either Gramoxone Super or Roundup can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

**WEEDS CONTROLLED**

In addition to the weeds controlled by GOAL 2E herbicide used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

Devrinol	simazine*
Gramoxone Super	Solicam
Karmex	Surflan
KERB	

\*In addition, simazine provides preemergence control of horseweed (marestail).

**TREEFRUIT/NUT/VINE**

**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Apply only to dormant fruit or nut trees or vines. Dormancy determines the suitability and safety of using GOAL 2E herbicide on treefruit, nut and vines. Do not apply after buds start to swell or when foliage or fruit/nuts are present.
- IN ARIZONA AND CALIFORNIA, DO NOT APPLY GOAL 2E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO TREE OR VINE PLANTINGS BEFORE OCTOBER 1 OR AFTER FEBRUARY 15. DO NOT APPLY GOAL 2E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO GRAPES IN THE COACHELLA VALLEY (CALIFORNIA) BEFORE OCTOBER 1 OR AFTER FEBRUARY 1.
- Do not apply more than 8 pints (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.
- Do not apply to grapes or kiwi established less than 3 years unless vines are on a trellis wire a minimum of 3 feet above the soil surface.
- Do not apply to grapes or kiwi that are not staked or trellised unless grapes are free-standing.
- GOAL 2E herbicide or any of the combinations recommended on this label should be applied to only healthy growing trees or vines.
- Direct spray toward the base of tree or vines. Avoid direct plant contact.

**SPECIFIC USE RESTRICTIONS FOR INDIVIDUAL CROPS ARE FOUND UNDER DIRECTIONS FOR USE IN EACH CROP GROUP SECTION.**

**USE RESTRICTIONS THAT APPLY TO ALL REGISTERED APPLICATIONS ARE LISTED BELOW:**

**GENERAL USE RESTRICTIONS**

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- Do not contaminate irrigation water or water used for domestic purposes.
- Do not use any plants treated with GOAL 2E herbicide for feed or forage.
- Do not feed or allow animals to graze on any areas treated with GOAL 2E herbicide.
- GOAL 2E herbicide should be applied only by ground application equipment except as specifically directed on this label or on other approved Rohm and Haas Company supplemental labeling.

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- Do not apply when weather conditions favor drift and drift to all non-target areas. GOAL 2E herbicide is phytotoxic to plant life.
- Thoroughly flush spray equipment (tank, pump, hoses and boom) with clean water before and after each use. Residual GOAL 2E herbicide remaining in spray equipment may damage other crops. To assist removal of GOAL 2E herbicide residues in spray equipment, TRITON AG-98 or TRITON CS-7 may be added at the rate of 1 quart per 100 gallons of water during flushing.
- Use GOAL 2E herbicide only for recommended purposes and at recommended rates.
- Do not treat ditch banks or waterways with GOAL 2E herbicide.
- CHEMIGATION: Do not apply this product through any type of irrigation system.

Do not rotate to any crop other than cotton, onions, soybeans or spearmint/peppermint within a 10-month period after treatment.

### WEED CONTROL LIST

AGERATUM  
 BALSAMAPPLE  
 BARNYARDGRASS (WATERGRASS)  
 BEDSTRAW, CATCHWEED  
 BITTERCRESS, LESSER  
 BLUEGRASS, ANNUAL  
 BLUEGRASS, KENTUCKY  
 BROME, RIPGUT  
 BUCKWHEAT, WILD  
 BURCLOVER  
 BUTTONWEED  
 CAMPHORWEED  
 CANARYGRASS (ANNUAL)  
 CARPETWEED  
 CHEESEWEED (MALVA)  
 CHICKWEED, COMMON  
 CHICKWEED, STICKY  
 CLOVER, RED  
 CLOVER, WHITE  
 COCKLEBUR, COMMON  
 CRABGRASS, LARGE (HAIRY)  
 CRABGRASS, SMOOTH  
 CROTALARIA  
 CROTON, TROPIC  
 CUDWEED, NARROWLEAF  
 CUPGRASS, SOUTHWESTERN  
 EVENINGPRIMROSE, CUTLEAF  
 FIDDLENECK, COAST  
 FILAREE, BROADLEAF  
 FILAREE, REDSTEM  
 FILAREE, WHITESTEM  
 FIREWEED (FROM SEED)  
 FLIXWEED  
 FOXTAIL, GIANT  
 FOXTAIL, GREEN  
 FOXTAIL, YELLOW  
 GOOSEGRASS  
 GROUNDCHERRY, CUTLEAF  
 GROUNDCHERRY, WRIGHT  
 GROUNDSEL, COMMON  
 HENBIT  
 HORSEWEED (MARESTAIL)  
 JIMSONWEED  
 JOHNSONGRASS, SEEDLING  
 KNOTWEED, PROSTRATE  
 LADYSTHUMB (SMARTWEED)  
 LAMBSQUARTERS, COMMON  
 LETTUCE, PRICKLY (CHINA LETTUCE)  
 MALLOW, LITTLE (MALVA)  
 MAYWEED (DOG FENNEL)  
 MINERSLETTUCE  
 MORNINGGLORY SPECIES, ANNUAL  
 MORNINGGLORY, TALL  
 MUSTARD, BLACK

*Ageratum conyzoides*  
*Momordica charantia*  
*Echinochloa crus-galli*  
*Galium aparine*  
*Cardamine oligosperma*  
*Poa annua*  
*Poa pratensis*  
*Bromus rigidus*  
*Polygonum convolvulus*  
*Medicago hipida*  
*Borreria laevis*  
*Heterotheca subaxillaris*  
*Phalaris canariensis*  
*Mollugo verticillata*  
*Malva parviflora*  
*Stellaria media*  
*Cerastium viscosum*  
*Trifolium pratense*  
*Trifolium repens*  
*Xanthium pensylvanicum*  
*Digitaria sanguinalis*  
*Digitaria ischaemum*  
*Crotalaria species*  
*Croton glandulosus*  
*Gnaphalium falcatum*  
*Eriochloa gracilis*  
*Oenothera laciniata*  
*Amsinckia intermedia*  
*Erodium botrys*  
*Erodium cicutarium*  
*Erodium moschatum*  
*Epilobium angustifolium*  
*Descurainia sophia*  
*Setaria faberi*  
*Setaria viridis*  
*Setaria lutescens*  
*Eleusine indica*  
*Physalis angulata*  
*Physalis wrightii*  
*Senecio vulgaris*  
*Lamium amplexicaule*  
*Conyza canadensis*  
*Datura stramonium*  
*Sorghum halepense*  
*Polygonum aviculare*  
*Polygonum persicaria*  
*Chenopodium album*  
*Lactuca serriola*  
*Malva parviflora*  
*Anthemis cotula*  
*Montia perfoliata*  
*Ipomoea species*  
*Ipomoea purpurea*  
*Brassica nigra*

MUSTARD, BLUE (PLE MUSTARD)  
 MUSTARD, COMM. ELLOR  
 MUSTARD, TUMBLE (JIM HILL MUSTARD)  
 MUSTARD, WILD  
 NETTLE, BURNING  
 NIGHTSHADE, AMERICAN BLACK  
 NIGHTSHADE, BLACK  
 NIGHTSHADE, HAIRY  
 OATS, WILD  
 ORACH, RED  
 ORCHARDGRASS  
 OXALIS (BERMUDA BUTTERCUP)  
 PANICUM, FALL  
 PEPPERWEED, VIRGINIA  
 PEPPERWEED, YELLOWFLOWER  
 PIGWEED, PROSTRATE  
 PIGWEED, REDROOT  
 PIMPERNEL, SCARLET  
 PINEAPPLEWEED  
 POINSETTIA, WILD  
 PUNCTUREVINE  
 PURSLANE, COMMON  
 PUSLEY, FLORIDA  
 QUACKGRASS  
 RAGWEED, COMMON  
 REDMAIDS  
 ROCKET, LONDON  
 RYEGRASS, ITALIAN  
 RYEGRASS, PERENNIAL  
 SAGE, LANCELEAF  
 SANDBUR, FIELD  
 SANDSPURRY  
 SESBANIA, HEMP  
 SHEPHERDSPURSE  
 SICKLEPOD  
 SIDA, PRICKLY (TEAWEED)  
 SIGNALGRASS, BROADLEAF  
 SMARTWEED, PENNSYLVANIA  
 SORREL, RED (FROM SEED)  
 SOWTHISTLE, ANNUAL  
 SOWTHISTLE, COMMON  
 SPEEDWELL, BIRDSEYE  
 SPURGE, GARDEN  
 SPURGE, PROSTRATE  
 SPURGE, SPOTTED  
 SPURRY, CORN  
 TANSYMUSTARD  
 THISTLE, BULL  
 THISTLE, RUSSIAN  
 VELVETLEAF  
 WITCHGRASS  
 WITCHWEED  
 WOODSORREL, COMMON YELLOW

*Chorispora tenella*  
*Brassica campestris*  
*Sisymbrium altissimum*  
*Brassica kaber*  
*Urtica urens*  
*Solanum nodiflorum*  
*Solanum nigrum*  
*Solanum sarachoides*  
*Avena fatua*  
*Atriplex rosea*  
*Dactylis glomerata*  
*Oxalis pes-caprae*  
*Panicum dichotomiflorum*  
*Lepidium virginicum*  
*Lepidium perfoliatum*  
*Amaranthus blitoides*  
*Amaranthus retroflexus*  
*Anagallis arvensis*  
*Matricaria matricarioides*  
*Euphorbia heterophylla*  
*Tribulus terrestris*  
*Portulaca oleracea*  
*Richardia scabra*  
*Agropyron repens*  
*Ambrosia artemisiifolia*  
*Calandrinia caulescens*  
*Sisymbrium irio*  
*Lolium multiflorum*  
*Lolium perene*  
*Salvia lanceolata*  
*Cenchrus incertus*  
*Spergularia rubra*  
*Sesbania exaltata*  
*Capsella bursa-pastoris*  
*Cassia obtusifolia*  
*Sida spinosa*  
*Brachiaria platyphylla*  
*Polygonum pensylvanicum*  
*Rumex acetosella*  
*Sonchus oleraceus*  
*Sonchus oleraceus*  
*Veronica persica*  
*Euphorbia hirta*  
*Euphorbia supina*  
*Euphorbia maculata*  
*Spergula arvensis*  
*Descurainia pinnata*  
*Cirsium vulgare*  
*Salsola kali*  
*Abutilon theophrasti*  
*Panicum capillare*  
*Striga asiatica*  
*Oxalis stricta*

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