

ROHM AND HAAS COMPANY

INDEPENDENCE MALL WEST
PHILADELPHIA, PENNSYLVANIA 19105

EPA Reg. No. 707-145-AA
EPA Est. No. 707-PA-1



SUPPLEMENTAL LABELING FOR GOAL 2E HERBICIDE

DIRECTIONS FOR USE

- DORMANT APPLICATION - CHERRY, GRAPE, PEACH
ALL STATES EXCEPT CALIFORNIA AND ARIZONA

ACCEPTED
with comments
OCT 26 1984
Use for the Federal Register
707-145

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 bearing and nonbearing dormant cherry, peach and grape plantings.

The most effective postemergence weed control is achieved when GOAL 2E herbicide is applied to seedling weeds (less than 4 leaf stage). For postemergence control of certain grassy and broadleaf weeds, a tank mixture of GOAL 2E herbicide with either paraquat (Gramoxone^R or Ortho^R paraquat) or Roundup^R can be used.

Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Treated berms or soil surfaces should not be disked or disturbed in any manner 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. For residual grass control in dormant treefruit or vine plantings, a tank mixture of GOAL 2E herbicide with Devrinol^R, KERB^R, simazine or Surflan^R can be used. Contact herbicides such as paraquat 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

DOSAGE

GOAL 2E herbicide is recommended for postemergence control at 1.0 to 4.0 quarts (0.5 to 2.0 lb. active) per broadcast acre. The lower rate is recommended for the control of susceptible seedling weeds up to the 4 leaf stage. The higher rate (2.0 lb. active) should be used for weeds up to the 6 leaf stage. For preemergence control of susceptible weeds, use 4 quarts (2.0 lb. active) per broadcast acre.

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

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

WEEDS CONTROLLED POSTEMERGENCE

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

Momordica charantia
Xanthium pensylvanicum
Gnaphalium falcatum
Oenothera laciniata
Physalis angulata
Physalis wrightii
Datura stramonium
Chenopodium album
Ipomoea species
Solanum nodiflorum
Solanum nigrum
Lepidium virginicum
Amaranthus retroflexus
Euphorbia heterophylla
Portulaca oleracea
Sesbania exaltata
Capsella bursa-pastoris
Sida spinosa
Polygonum pensylvanicum
Sonchus oleraceus
Abutilon theophrasti

WEEDS CONTROLLED PREEMERGENCE

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

Heterotheca subaxillaris
Gnaphalium falcatum
Oenothera laciniata
Physalis angulata
Datura stramonium
Chenopodium album
Solanum nodiflorum
Solanum nigrum
Lepidium virginicum
Amaranthus retroflexus
Euphorbia heterophylla
Sida spinosa
Polygonum pensylvanicum
Sonchus oleraceus
Euphorbia supina
Euphorbia maculata
Abutilon theophrasti

* Maximum 0.5 inch diameter

**Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 4 quarts (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.

TIMING AND METHOD OF APPLICATION

Dormancy determines the suitability and safety of using GOAL 2E herbicide on cherry, peach and grape plantings. Do not apply GOAL 2E herbicide after buds start to swell or when foliage or fruit are present.

As a preemergence treatment, apply in 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 soil surface or berm. 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 break-away boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired. Spray equipment should be calibrated carefully before each use. See SPECIFIC USE RESTRICTIONS for GOAL 2E herbicide application on dormant tree or vine plantings.

SPRAY VOLUME:

<u>Weed Stage</u>	<u>Gallons of Water Per Acre</u>
Early Postemergence (weeds up to 4 leaf stage)	40 or more
Postemergence (weeds up to 6 leaf stage)	100 or more
Preemergence	40 or more

MIXING DIRECTIONS: Fill the spray tank at least one-third full of clean water and add the recommended amount of GOAL 2E herbicide while the pump and agitator are running. Complete filling of the spray tank with water and then add 1 quart of a nonionic surfactant such as TRITON[®] AG-98, or comparable 80% active nonionic surfactant cleared for application to growing crops, per each 100 gallons of spray. Maintain agitation until spraying is completed.

CULTURAL CONSIDERATIONS: In order to provide maximum effectiveness of preemergence activity of GOAL 2E herbicide, the berm or soil surface should be smooth and free of crop or 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.

For best preemergence activity, at least one-quarter inch (1/4 inch) of irrigation water should be applied within 3 to 4 weeks after application if no rainfall occurs.

Cultural practices which 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. The best results are from applications to soil surfaces or berms which are left undisturbed during the time period for which weed control is desired.

SPECIFIC USE RESTRICTIONS - GOAL 2E HERBICIDE

The following specific use restrictions should be observed when GOAL 2E herbicide is used alone or in any tank mix spray combination recommended on 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 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.
- . Do not apply when weather conditions favor drift. Avoid drift to all non-target areas. GOAL 2E herbicide is phytotoxic to plant foliage.
- . 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 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.
- . Do not rotate any crops other than corn, cotton, onions, soybeans, or spearmint/peppermint within a 10-month period after treatment.
- . Use GOAL 2E herbicide only for recommended purposes and at recommended rates.
- . Do not treat ditch banks or waterways with GOAL 2E herbicide.
- . Do not apply to grapes established less than 3 years old. Spray above the trellis wire a minimum of 3 feet above the soil surface.
- . Apply only to dormant fruit or vines. Dormancy determines the suitability and safety of using GOAL 2E herbicide on treefruit and vines. Do not apply after buds start to swell or when foliage or fruit/nuts are present.
- . Do not apply more than 4 quarts (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.
- . Do not apply to grapes which are not staked or trellised unless grapes are free-standing.
- . GOAL 2E herbicide or any of the tank mix combinations recommended on this label should be applied to only healthy growing trees or vines.
- . Direct spray toward the base of trees or vines. Avoid direct plant contact.

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 postemergence control of susceptible grassy and broadleaf weeds in certain dormant treefruit and vines, a tank mixture of GOAL 2E herbicide with either paraquat 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.

For preemergence control of susceptible grassy weeds in certain dormant tree fruit and vines, a tank mixture of GOAL 2E herbicide with either Devrinol, KERB, simazine, or Surflan may be applied. Contact herbicides such as paraquat or Roundup may be added to the tank mixture. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

WEEDS CONTROLLED PREEMERGENCE

When GOAL 2E herbicide is tank mixed with Devrinol 50-WP and applied preemergence, in addition to the weeds controlled preemergence by GOAL 2E alone, control of the following weeds is also obtained.

BARNYARDGRASS (WATERGRASS)	<i>Echinochloa crus-galli</i>
BLUEGRASS, ANNUAL	<i>Poa annua</i>
BROME, RIGID	<i>Bromus rigidus</i>
CHICKWEED, COMMON	<i>Stellaria media</i>
CRABGRASS, LARGE (HAIRY)	<i>Digitaria sanguinalis</i>
PINEAPPLEWEED	<i>Matricaria matricarioides</i>

When GOAL 2E herbicide is tank mixed with KERB, in addition to the weeds controlled preemergence by GOAL 2E alone, control of the following weeds is also obtained.

BLUEGRASS, ANNUAL	<i>Poa annua</i>
BLUEGRASS, KENTUCKY	<i>Poa pratensis</i>
CHICKWEED, COMMON	<i>Stellaria media</i>
ORCHARDGRASS	<i>Dactylis glomerata</i>
QUACKGRASS	<i>Agropyren repens</i>
RYEGRASS, PERENNIAL	<i>Lolium perene</i>

When GOAL 2E herbicide is tank mixed with simazine and applied preemergence, in addition to the weeds controlled preemergence by GOAL 2E alone, control of the following weeds is also obtained.

BARNYARDGRASS (WATERGRASS)	<i>Echinochloa crus-galli</i>
BLUEGRASS, ANNUAL	<i>Poa annua</i>
CHICKWEED, COMMON	<i>Stellaria media</i>
CRABGRASS, LARGE (HAIRY)	<i>Digitaria sanguinalis</i>
CRABGRASS, SMOOTH	<i>Digitaria ischaemum</i>
HORSEWEED (MARESTAIL)	<i>Conyza canadensis</i>

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

BARNYARDGRASS (WATERGRASS)	<i>Echinochloa crus-galli</i>
BLUEGRASS, ANNUAL	<i>Poa annua</i>
CHICKWEED, COMMON	<i>Stellaria media</i>
CRABGRASS, LARGE (HAIRY)	<i>Digitaria sanguinalis</i>
CRABGRASS, SMOOTH	<i>Digitaria ischaemum</i>
CUPGRASS, SOUTHWESTERN	<i>Eriochloa gracilis</i>

WEEDS CONTROLLED POSTEMERGENCE

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

BARNYARDGRASS (WATERGRASS)	<i>Echinochloa crus-galli</i>
BLUEGRASS, ANNUAL	<i>Poa annua</i>
BROME, RIPGUT	<i>Bromus rigidus</i>
CHICKWEED, COMMON	<i>Stellaria media</i>
HORSEWEED (MARESTAIL)	<i>Conyza canadensis</i>
ROCKET, LONDON	<i>Sisymbrium irio</i>

APPLICATION: As a preemergence and/or postemergence treatment, apply in a minimum of 40 gallons of water per acre depending upon density of emerged weeds. Spray coverage is essential for good postemergence weed results. Best preemergence results are achieved when spray is applied to a relatively weed-free soil surface or berm. Tank mixtures containing GOAL 2E herbicide should be directed to the soil and the base of trees or dormant vines. Use a low-pressure sprayer equipped with a break-away boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired. Spray equipment should be calibrated carefully before each use.

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 Devrinol, KERB, simazine or Surflan to the spray tank. Then add the recommended amounts of GOAL 2E herbicide and paraquat or Roundup during the filling operation. Complete filling of the spray tank with water and then add 1 quart of a nonionic surfactant such as MILLON AG-98 or comparable 80% active nonionic surfactant cleared for application to growing crops, per each 100 gallons of spray. Maintain agitation until spraying is completed.

CULTURAL CONSIDERATIONS: In addition to details previously listed under "GOAL 2E Herbicide Used Alone", read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive label specifications must apply.

SPECIFIC USE RESTRICTIONS - GOAL 2E Herbicide Tank Mixes

In addition to the following, also observe all specific use restrictions previously listed under "GOAL 2E Herbicide Used Alone".

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

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DEVINOL[®] is a registered trademark of Stauffer Chemical Company

GRAMOXON[®] is a registered trademark of ICI Americas, Inc.

ORTHO[®] is a registered trademark of the Chevron Chemical Company

ROUNDUP[®] is a registered trademark of Monsanto Company

SURFLAN[®] is a registered trademark of the Elanco Products Company

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ROHM AND HAAS COMPANY

INDEPENDENCE MALL WEST

PHILADELPHIA PENNSYLVANIA 19102



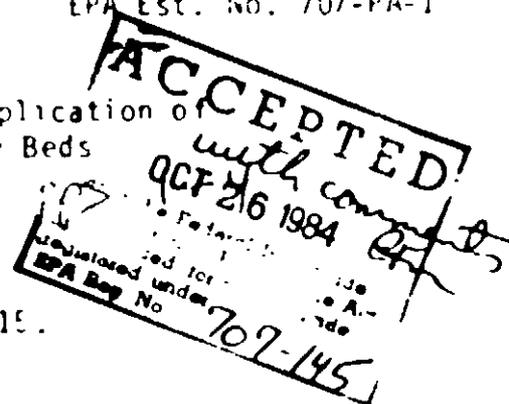
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Supplemental Labeling for Aerial Application of
GOAL 2E Herbicide on Fallow Beds

Labeling for use in California and Arizona

For use only in California and Arizona



TREATMENTS MUST BE MADE OCTOBER 1 THROUGH FEBRUARY 15.

DIRECTIONS FOR USE

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

NOTICE: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Precautions and Storage and Disposal Instructions on back 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.

GENERAL INFORMATION

GOAL 2E is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with Roundup^R or paraquat (Gramoxone^R or Ortho^R paraquat) for the control of winter annual broadleaf weeds in fallow beds. Do not apply within 14 days of planting. The fallow beds should be worked with a tillage, 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 used at 1.0 to 2.0 pints (0.25 to 0.5 lb. active) per broadcast acre. The lower rate (1.0 pints 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 (2.0 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 preirrigation or rainfall occurs within 3 or 4 weeks following application.

WEEDS CONTROLLED

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

CHEESEWEED (MALVA)	Malva parviflora
FIDDLENECK, COAST	Amsinckia intermedia
FILAREE, BROADLEAF	Erodium botrys
FILAREE, REDSTEM	Erodium cicutarium
GROUNDSEL, COMMON	Senecio vulgaris
HENBIT	Lamium amplexicaule
LETTUCE, MINERS	Montia perfoliata
MUSTARD, BLACK	Brassica nigra
NETTLE, BURNING	Urtica urens
REDMAIDS	Calandrinia caulescens
ROCKET, LONDON	Sisymbrium irio
SOWTHISTLE, ANNUAL	Sonchus oleraceus

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 uncultivated environmental conditions exist, a tank mixture of GOAL 2E herbicide with Roundup or paraquat for postemergence control is recommended.

AERIAL APPLICATION

GOAL 2E herbicide should be applied using swirl jet or hollow cone nozzles and a spray pressure below 40 psi to deliver a minimum of 10 gallons of water per acre. 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 vortice 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 AND 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 beets.
 - . 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 reduce drift hazard; however, the drift control agent may also decrease the weed control activity. The user will assume all risks as a result of using a drift control agent.

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 which 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.

MIXING DIRECTIONS

Fill the spray tank at least one-third full of clean water and add the recommended amount of GOAL 2E herbicide while the pump and agitator are running. Complete filling of the spray tank with water and then 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.

CULTURAL CONSIDERATIONS

In order for GOAL 2E herbicide to provide maximum preemergence activity, the bed or soil surface should be smooth and free of crop and weed trash (decaying leaves, clippings, dead weeds, etc.).

For best preemergence activity, preirrigation or rainfall should occur within 3 or 4 weeks after application. Cultural practices which result in redistribution or disturbance of the soil surface after treatment will decrease the herbicidal effectiveness of GOAL 2E. The best results from GOAL 2E herbicide are from applications to established beds or soil surfaces which are left undisturbed during the time period for which weed control is desired.

GOAL 2E HERBICIDE - TANK MIXES DOSAGE

GOAL 2E herbicide can be tank mixed with paraquat or Roundup to obtain postemergence control of annual grassy weeds. Tank mix 1.0 to 2.0 pints (0.25 to 0.5 lb. active) of GOAL 2E herbicide with 1 to 2 quarts (0.5 to 1.0 lb. active) of paraquat or 0.5 to 1.0 pint (0.25 to 0.5 lb. active) of Roundup for each acre treated. Refer to the "Preplant or Preemergence Uses" Section on the Ortho paraquat CL label or the Gramoxone 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.

TANK MIXING DIRECTIONS

Fill the spray tank at least one-third full of clean water and add the recommended amounts of GOAL 2E herbicide and paraquat or Roundup while 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 BED - SPECIFIC 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 AERIALY APPLY GOAL 2E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO FALLOW BEDS BEFORE OCTOBER 1 OR AFTER FEBRUARY 15.
- . Do not apply more than 2.0 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.
- . Do not rotate to any crops other than cotton or soybeans for 10 months following a GOAL 2E herbicide fallowbed application.
- . 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.
- . Do not apply when weather conditions favor drift. Avoid drift to all non-target areas. GOAL 2E herbicide is phytotoxic to plant foliage.
- . 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 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.

GOAL^R 2E and TRITON AG-98 are registered trademarks of Rohm and Haas Company.

GRAMOXONER^R is a registered trademark of ICI Americas Inc.

ROUNDUP^R is a registered trademark of Monsanto Company.

ORTHO^R is a registered trademark of the Chevron Chemical Company.

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. Crop injury, ineffectiveness or other unintended consequences resulting from such factors as failure to follow label directions, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, handling, storage and manner of use are beyond the control of Rohm and Haas and Seller. All such risks 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 use or handling of this product.

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HENBIT
 LETTUCE, MINERS
 NETTLE, BURNING
 PIGWEED, REDROOT
 REDMAIDS
 SHEPHERDSPURSE
 SOWTHISTLE, ANNUAL

Lamium amplexicaule
 Montia perfoliata
 Urtica urens
 Amaranthus retroflexus
 Calandrinia caulescens
 Capsella bursa-pastoris
 Sonchus oleraceus

WEEDS CONTROLLED PREEMERGENCE

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

Medicago hipida
 Malva parviflora
 Amsinckia intermedia
 Erodium botrys
 Erodium cicutarium
 Erodium moschatum
 Senecio vulgaris
 Lamium amplexicaule
 Polygonum aviculare
 Chenopodium album
 Lactuca serriola
 Amaranthus retroflexus
 Portulaca oleracea
 Calandrinia caulescens
 Sisymbrium irio
 Capsella bursa-pastoris
 Sonchus oleraceus
 Euphorbia supina
 Euphorbia maculata

<u>Weed Stage</u>	<u>GOAL 2E Herbicide Rate (Per Broadcast Acre)*</u>	<u>Weeds Controlled</u>
Early Postemergence (weeds up to 4 inches high)	1 quart (0.5 lb. active)	CHEESEWEED (MALVA) FIDDLENECK, COAST FILAREE, REDSTEM HENBIT REDMAIDS SHEPHERDSPURSE
Postemergence (weeds up to 8 inches high)	2 quarts (1.0 lb. active)	CHEESEWEED (MALVA) FIDDLENECK, COAST FILAREE, REDSTEM HENBIT LETTUCE, MINERS NETTLE, BURNING REDMAIDS SHEPHERDSPURSE SOWTHISTLE, ANNUAL

Late Postemergence (weeds up to 12 inches high)	4 quarts (2.0 lb. active)	CHEESEWEED (MALVA) FIDDLENECK, COAST FILAREE, BROADLEAF FILAREE, REDSTEM FILAREE, WHITESTEM GROUNDSEL, COMMON HENBIT LETTUCE, MINERS NETTLE, BURNING PIGWEEED, REDROOT REDMAIDS SHEPHERDSPURSE SOWTHISTLE, ANNUAL
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<u>Weed Stage</u>	GOAL 2E Herbicide Rate (Per Broadcast Acre)*	<u>Weeds Controlled</u>
Preemergence	4 quarts (2.0 lb. active)	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 SHEPHERDSPURSE SOWTHISTLE, ANNUAL SPURGE, PROSTRATE SPURGE, SPOTTED

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

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

TIMING AND METHOD OF APPLICATION

As a preemergence treatment, apply in a minimum of 40 gallons of water per acre depending upon density of emerged weeds. Best preemergence results are achieved when spray is applied to a relatively weed-free berm or soil surface. 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 break-away boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired. Spray equipment should be calibrated carefully before each use.

SPRAY VOLUME:

<u>Weed Stage</u>	<u>Gallons of Water Per Acre</u>
Early Postemergence (weeds up to 4 inches high)	40 or more
Postemergence (weeds up to 8 inches high)	100 or more
Late Postemergence (weeds up to 12 inches high)	100 or more
Preemergence	40 or more

FLORIDA, LOUISIANA AND TEXAS
DOSAGE

GOAL 2E herbicide is recommended for postemergence control at 1 to 4 quarts (0.5 to 2.0 lb. active) 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. For preemergence control of susceptible weeds, GOAL 2E herbicide is recommended at 4 quarts (2.0 lb. active) per broadcast acre.

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

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

WEEDS CONTROLLED POSTEMERGENCE

BALSAMAPPLE	Mimordica charantia
*CUDWEED, NARROWLEAF	Gnaphalium falcatum
**EVENING PRIMROSE, CUTLEAF	Oenothera laciniata
GROUNDCHERRY, CUTLEAF	Physalis angulata
GROUNDCHERRY, WRIGHT	Physalis wrightii
LAMBSQUARTERS, COMMON	Chenopodium album
MORNINGGLORY, ANNUAL	Ipomoea species
NIGHTSHADE, AMERICAN BLACK	Solanum nodiflorum
NIGHTSHADE, BLACK	Solanum nigrum
PEPPERWEED, VIRGINIA	Lepidium virginicum
PIGWEEED, REDROOT	Amaranthus retroflexus
POINSETTIA, WILD	Euphorbia heterophylla
PURSLANE, COMMON	Portulaca oleracea
PUSLEY, FLORIDA	Richardia scabra
SIDA, PRICKLY (TEAWEED)	Sida spinosa
SMARTWEED, PENNSYLVANIA	Polygonum pennsylvanicum
SOWTHISTLE, ANNUAL	Sonchus oleraceus

WEEDS CONTROLLED PREEMERGENCE

CUDWEED, NARROWLEAF	Gnaphalium falcatum
**EVENINGPRIMROSE, CUTLEAF	Oenothera laniata
GROUNDCHERRY, CUTLEAF	Physalis angulata
LAMBSQUARTERS, COMMON	Chenopodium album
NIGHTSHADE, AMERICAN BLACK	Solanum nodiflorum
NIGHTSHADE, BLACK	Solanum nigrum
PEPPERWEED, VIRGINIA	Lepidium virginicum
PIGWEEED, REDROOT	Amaranthus retroflexus
POINSETTIA, WILD	Euphorbia heterophylla
PUSLEY, FLORIDA	Richardia scabra
SIDA, PRICKLY	Sida spinosa
SMARTWEED, PENNSYLVANIA	Polygonum pennsylvanicum
SOYTHISTLE, ANNUAL	Sonchus oleraceus
SPURGE, PROSTRATE	Euphorbia supina
SPURGE, SPOTTED	Euphorbia maculata

*Maximum 0.5 inch diameter.

**Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 8 quarts (4.0 lb. active) per broadcast acre during any 12 month period as a result of multiple applications.

TIMING AND METHOD OF APPLICATION

As a preemergence treatment, apply in a minimum of 40 gallons of water per acre depending upon density of emerged weeds. Best preemergence results are achieved when spray is applied to a relatively weed-free soil surface. 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 break-away boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired. Spray equipment should be calibrated carefully before each use.

SPRAY VOLUME:

<u>Weed Stage</u>	<u>Gallons of Water Per Acre</u>
Early Postemergence (weeds up to 4 leaf stage)	40 or more
Postemergence (weeds up to 6 leaf stage)	100 or more
Preemergence	40 or more

ALL STATES (ARIZONA, CALIFORNIA, FLORIDA, LOUISIANA, TEXAS)

MIXING DIRECTIONS: Fill the spray tank at least one-third full of clean water and add the recommended amount of GOAL 2E herbicide while the pump and agitator are running. Complete filling of the spray tank with water and then add 1 quart of a nonionic surfactant such as TRITON[®] AG-98, or comparable 80% active nonionic surfactant cleared for application to growing crops, per each 100 gallons of spray. Maintain agitation until spraying is completed.

CULTURAL CONSIDERATIONS: In order to provide maximum effectiveness of preemergence activity of GOAL 2E herbicide, the berm or soil surface should be smooth and free of crop or 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.

For best preemergence activity, at least one-quarter inch ($\frac{1}{4}$ inch) of water should be applied within 3 to 4 weeks after application if no rainfall occurs.

Cultural practices which 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. The best results are from applications to soil surfaces or berms which are left undisturbed during the time period for which weed control is desired.

GOAL 2E HERBICIDE - SPECIFIC USE RESTRICTIONS

The following use restrictions should be observed when GOAL 2E herbicide is used alone or in any spray combination recommended on 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.
- . Apply GOAL 2E herbicide only to nonbearing citrus trees.
- . Do not apply more than 4 quarts of GOAL 2E herbicide (2.0 lb. active) per broadcast acre herbicide in a single application or more than 8 quarts (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 only after foliage has fully expanded and hardened off.
- . Direct spray toward the base of trees. Avoid direct spray contact on the citrus foliage.
- . 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.
- Do not apply when weather conditions favor drift. Avoid drift to all non-target areas. GOAL 2E herbicide is phytotoxic to plant foliage.
- 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 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.
- Do not rotate any crops other than corn, cotton, soybeans, or spearmint/peppermint within a 10-month period after treatment.
- Use GOAL 2E herbicide only for recommended purposes and at recommended rates.
- Do not treat ditch banks or waterways with GOAL 2E herbicide.

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 postemergence control of certain grassy and broadleaf weeds, in certain citrus plantings, a tank mixture of GOAL 2E herbicide with either paraquat 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.

For preemergence control of certain grassy and broadleaf weeds, in certain citrus plantings, a tank mixture of GOAL 2E herbicide with either Devrinol, simazine, Solicam or Surflan can be applied. Contact herbicides such as paraquat or Roundup may be added to the tank mixture. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

For preemergence control of susceptible weeds, use 4 quarts (2.0 lb. active) of GOAL 2E herbicide per broadcast acre.

WEEDS CONTROLLED PREEMERGENCE

When GOAL 2E herbicide is tank mixed with Devrinol 50-WP and applied preemergence, in addition to the weeds controlled preemergence by GOAL 2E alone, control of the following weeds is also obtained.

BARNYARDGRASS (WATERGRASS)
BLUEGRASS, ANNUAL
BROME, RIPGUT
CHICKWEED, COMMON
CRABGRASS, LARGE (HAIRY)
PINEAPPLEWEED

Echinochloa crus-galli
Poa annua
Bromus rigidus
Stellaria media
Digitaria sanguinalis
Marricaria maricarioides

When GOAL 2E herbicide is tank mixed with simazine and applied preemergence, in addition to the weeds controlled preemergence by GOAL 2E alone, control of the following weeds is also obtained.

BARNYARDGRASS (WATERGRASS)	Echinochloa crus-galli
BLUEGRASS, ANNUAL	Poa annua
CHICKWEED, COMMON	Stellaria media
CRABGRASS, LARGE (HAIRY)	Digitaria sanguinalis
CRABGRASS, SMOOTH	Digitaria ischaemum
HORSEWEED (MARESTAIL)	Conyza canadensis

When GOAL 2E herbicide is tank mixed with Solicam and applied preemergence, in addition to the weeds controlled preemergence by GOAL 2E alone, control of the following weeds is also obtained.

BARNYARDGRASS (WATERGRASS)	Echinochloa crus-galli
BLUEGRASS, ANNUAL	Poa annua
BROME, RIPGUT	Bromus rigidus
CUPGRASS, SOUTHWESTERN	Eriochloa gracilis
PINEAPPLEWEED	Matricaria matricarioides

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

BARNYARDGRASS (WATERGRASS)	Echinochloa crus-galli
BLUEGRASS, ANNUAL	Poa annua
CHICKWEED, COMMON	Stellaria media
CRABGRASS, LARGE (HAIRY)	Digitaria sanguinalis
CRABGRASS, SMOOTH	Digitaria ischaemum
CUPGRASS, SOUTHWESTERN	Eriochloa gracilis

WEEDS CONTROLLED POSTEMERGENCE:

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

BARNYARDGRASS	Echinochloa crus-galli
BLUEGRASS, ANNUAL	Poa annua
BROME, RIPGUT	Bromus rigidus
CHICKWEED, COMMON	Stellaria media
HORSEWEED (MARESTAIL)	Conyza canadensis
ROCKET, LONDON	Sisymbrium irio
SPURGE, PROSTRATE	Euphorbia supina

METHOD OF APPLICATION

As a preemergence and/or postemergence treatment, apply in a minimum of 40 gallons of water per acre depending upon density of emerged weeds. Spray coverage is essential for good postemergence results. Best preemergence results are achieved when the tank mix is applied to a relatively weed-free soil surface or berm. Spray should be directed to the soil and the base of trees. Use a low-pressure sprayer equipped with a break-away boom with flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired. Spray equipment should be calibrated carefully before each use.

MIXING DIRECTIONS: Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the recommended amounts of Devrinol, simazine, Solicam or Surflan to the spray tank, then add the recommended amounts of GOAL 2E herbicide and paraquat or Roundup while the pump and agitator are running. Complete filling of the spray tank with water and then add 1 quart of a nonionic surfactant such as TRITON[®] AG-98 or comparable 80% active nonionic surfactant cleared for application to growing crops, per each 100 gallons of spray. Maintain agitation until spraying is completed.

CULTURAL CONSIDERATIONS: In addition to details previously listed under "GOAL 2E Herbicide Used Alone," read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive label specifications must apply.

SPECIFIC USE RESTRICTIONS - GOAL 2E HERBICIDE/TANK MIXES

In addition to the following, also observe all specific use restrictions previously listed under GOAL 2E Herbicide Used Alone.

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

GOAL[®], and TRITON[®] AG-98 are registered trademarks of Rohm and Haas Company
DEVRI[®]NOL is a registered trademark of Stauffer Chemical Company
GRAMOXON[®] is a registered trademark of ICI Americas, Inc.
ORTH[®]O is a registered trademark of the Chevron Chemical Company
ROUNDUP[®] is a registered trademark of Monsanto Company
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SOLICAM[®] is a registered trademark of Sandoz, Inc.

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(Doc. #9710E/366Z)
4/27/84

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1088
Pm 23
R.G. # 707-145

JCT 26 1984

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Thomas D. Rogerson, Ph.D.
Rohm and Haas Company
Independence Mall West
Philadelphia, PA 19105

Dear Dr. Rogerson:

Subject: Amendment - Dormant Applications: Cherry, Grape, Peach
Goal 2E Herbicide
EPA Registration No. 707-145
Goal 1.6E Herbicide
EPA Registration No. 707-174
Resubmissions: October 23, 1984

The amendments referred to above, submitted in connection with registration under FIFRA, are acceptable provided that you:

1. Make the labeling changes listed below before you release the products for shipment bearing the amended labeling:
 - a. For Goal 1.6 Herbicide, repeat the appropriate restrictions from GENERAL USE RESTRICTIONS section of the label so that the list of specific restrictions for this product's use are the same as those listed for Goal 2E. We believe it is important for the user to be reminded not to permit grazing of treated areas, etc.
 - b. For both products provide a table showing application rates for the respective Goal products and the various tank mix articles used in combination with them.

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

A summary copy of each label is enclosed.

Sincerely yours,

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

Enclosure

RD:DCR-50748;Mountfort;RD-6A;KIM;Kendrick;898-1270;10/24/84;Del.11/01/84

CONCURRENCE

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SERIALIZED
INDEXED
FILED
OCT 26 1984
EPA FORM 1

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SUPPLEMENTAL LABELING FOR GOAL 2E HERBICIDE

DIRECTIONS FOR USE

- DORMANT APPLICATION - CHERRY, GRAPE, PEACH
ALL STATES EXCEPT CALIFORNIA AND ARIZONA

ACCEPTED
with comments
OCT 26 1984
Under the Federal In-
secticide Act
707-145

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 bearing and nonbearing dormant cherry, peach and grape plantings.

The most effective postemergence weed control is achieved when GOAL 2E herbicide is applied to seedling weeds (less than 4 leaf stage). For postemergence control of certain grassy and broadleaf weeds, a tank mixture of GOAL 2E herbicide with either paraquat (Gramoxone^R or Ortho^R paraquat) or Roundup^R can be used.

Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Treated berms or soil surfaces should not be disked or disturbed in any manner 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. For residual grass control in dormant treefruit or vine plantings, a tank mixture of GOAL 2E herbicide with Devrinol^R, KERB^R, simazine or Surflan^R can be used. Contact herbicides such as paraquat 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

DOSAGE

GOAL 2E herbicide is recommended for postemergence control at 1.0 to 4.0 quarts (0.5 to 2.0 lb. active) per broadcast acre. The lower rate is recommended for the control of susceptible seedling weeds up to the 4 leaf stage. The higher rate (2.0 lb. active) should be used for weeds up to the 6 leaf stage. For preemergence control of susceptible weeds, use 4 quarts (2.0 lb. active) per broadcast acre.

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

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

REGISTERED

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WEEDS CONTROLLED POSTEMERGENCE

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

Momordica charantia
 Xanthium pensylvanicum
 Gnaphalium falcatum
 Oenothera laciniata
 Physalis angulata
 Physalis wrightii
 Datura stramonium
 Chenopodium album
 Ipomoea species
 Solanum nodiflorum
 Solanum nigrum
 Lepidium virginicum
 Amaranthus retroflexus
 Euphorbia heterophylla
 Portulaca oleracea
 Sesbania exaltata
 Capsella bursa-pastoris
 Sida spinosa
 Polygonum pensylvanicum
 Sonchus oleraceus
 Abutilon theophrasti

WEEDS CONTROLLED PREEMERGENCE

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

Heterotheca subaxillaris
 Gnaphalium falcatum
 Oenothera laciniata
 Physalis angulata
 Datura stramonium
 Chenopodium album
 Solanum nodiflorum
 Solanum nigrum
 Lepidium virginicum
 Amaranthus retroflexus
 Euphorbia heterophylla
 Sida spinosa
 Polygonum pensylvanicum
 Sonchus oleraceus
 Euphorbia supina
 Euphorbia maculata
 Abutilon theophrasti

* Maximum 0.5 inch diameter

**Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 4 quarts (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.

TIMING AND METHOD OF APPLICATION

Dormancy determines the suitability and safety of using GOAL 2E herbicide on cherry, peach and grape plantings. Do not apply GOAL 2E herbicide after buds start to swell or when foliage or fruit are present.

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As a preemergence treatment, apply in 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 soil surface or berm. 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 break-away boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired. Spray equipment should be calibrated carefully before each use. See SPECIFIC USE RESTRICTIONS for GOAL 2E herbicide application on dormant tree or vine plantings.

SPRAY VOLUME:

<u>Weed Stage</u>	<u>Gallons of Water Per Acre</u>
Early Postemergence (weeds up to 4 leaf stage)	40 or more
Postemergence (weeds up to 6 leaf stage)	100 or more
Preemergence	40 or more

MIXING DIRECTIONS: Fill the spray tank at least one-third full of clean water and add the recommended amount of GOAL 2E herbicide while the pump and agitator are running. Complete filling of the spray tank with water and then add 1 quart of a nonionic surfactant such as TRITON[®] AG-98, or comparable 80% active nonionic surfactant cleared for application to growing crops, per each 100 gallons of spray. Maintain agitation until spraying is completed.

CULTURAL CONSIDERATIONS: In order to provide maximum effectiveness of preemergence activity of GOAL 2E herbicide, the berm or soil surface should be smooth and free of crop or 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.

For best preemergence activity, at least one-quarter inch (1/4 inch) of irrigation water should be applied within 3 to 4 weeks after application if no rainfall occurs.

Cultural practices which 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. The best results are from applications to soil surfaces or berms which are left undisturbed during the time period for which weed control is desired.

SPECIFIC USE RESTRICTIONS - GOAL 2E HERBICIDE

The following specific use restrictions should be observed when GOAL 2E herbicide is used alone or in any tank mix spray combination recommended on 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 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.
- . Do not apply when weather conditions favor drift. Avoid drift to all non-target areas. GOAL 2E herbicide is phytotoxic to plant foliage.
- . 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 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.
- . Do not rotate any crops other than corn, cotton, onions, soybeans, or spearmint/peppermint within a 10-month period after treatment.
- . Use GOAL 2E herbicide only for recommended purposes and at recommended rates.
- . Do not treat ditch banks or waterways with GOAL 2E herbicide.
- . Do not apply to grapes established less than 3 years unless vines are on the trellis wire a minimum of 3 feet above the soil surface.
- . Apply only to dormant fruit or vines. Dormancy determines the suitability and safety of using GOAL 2E herbicide on treefruit and vines. Do not apply after buds start to swell or when foliage or fruit/nuts are present.
- . Do not apply more than 4 quarts (2.0 lb. active) per broadcast acre of GOAL 2E herbicide in one season.
- . Do not apply to grapes which are not staked or trellised unless grapes are free-standing.
- . GOAL 2E herbicide or any of the tank mix combinations recommended on this label should be applied to only healthy growing trees or vines.
- . Direct spray toward the base of trees or vines. Avoid direct plant contact.

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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 postemergence control of susceptible grassy and broadleaf weeds in certain dormant treefruit and vines, a tank mixture of GOAL 2E herbicide with either paraquat 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.

For preemergence control of susceptible grassy weeds in certain dormant tree fruit and vines, a tank mixture of GOAL 2E herbicide with either Devrinol, KERB, simazine, or Surflan may be applied. Contact herbicides such as paraquat or Roundup may be added to the tank mixture. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

WEEDS CONTROLLED PREEMERGENCE

When GOAL 2E herbicide is tank mixed with Devrinol 50-WP and applied preemergence, in addition to the weeds controlled preemergence by GOAL 2E alone, control of the following weeds is also obtained.

- | | |
|----------------------------|---------------------------|
| BARNYARDGRASS (WATERGRASS) | Echinochloa crus-galli |
| BLUEGRASS, ANNUAL | Poa annua |
| BROME, RIPGUT | Bromus rigidus |
| CHICKWEED, COMMON | Stellaria media |
| CRABGRASS, LARGE (HAIRY) | Digitaria sanguinalis |
| PINEAPPLEWEED | Matricaria matricarioides |

When GOAL 2E herbicide is tank mixed with KERB, in addition to the weeds controlled preemergence by GOAL 2E alone, control of the following weeds is also obtained.

- | | |
|---------------------|--------------------|
| BLUEGRASS, ANNUAL | Poa annua |
| BLUEGRASS, KENTUCKY | Poa pratensis |
| CHICKWEED, COMMON | Stellaria media |
| ORCHARDGRASS | Dactylis glomerata |
| QUACKGRASS | Agropyren repens |
| RYEGRASS, PERENNIAL | Lolium perene |

When GOAL 2E herbicide is tank mixed with simazine and applied preemergence, in addition to the weeds controlled preemergence by GOAL 2E alone, control of the following weeds is also obtained.

- | | |
|----------------------------|------------------------|
| BARNYARDGRASS (WATERGRASS) | Echinochloa crus-galli |
| BLUEGRASS, ANNUAL | Poa annua |
| CHICKWEED, COMMON | Stellaria media |
| CRABGRASS, LARGE (HAIRY) | Digitaria sanguinalis |
| CRABGRASS, SMOOTH | Digitaria ischaemum |
| HORSEWEED (MARE-TAIL) | Conyza canadensis |

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

- | | |
|----------------------------|-------------------------------|
| BARNYARDGRASS (WATERGRASS) | <i>Echinochloa crus-galli</i> |
| BLUEGRASS, ANNUAL | <i>Poa annua</i> |
| CHICKWEED, COMMON | <i>Stellaria media</i> |
| CRABGRASS, LARGE (HAIRY) | <i>Digitaria sanguinalis</i> |
| CRABGRASS, SMOOTH | <i>Digitaria ischaemum</i> |
| CUPGRASS, SOUTHWESTERN | <i>Eriochloa gracilis</i> |

WEEDS CONTROLLED POSTEMERGENCE

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

- | | |
|----------------------------|-------------------------------|
| BARNYARDGRASS (WATERGRASS) | <i>Echinochloa crus-galli</i> |
| BLUEGRASS, ANNUAL | <i>Poa annua</i> |
| BROME, RIPGUT | <i>Bromus rigidus</i> |
| CHICKWEED, COMMON | <i>Stellaria media</i> |
| HORSEWEED (MARESTAIL) | <i>Conyza canadensis</i> |
| ROCKET, LONDON | <i>Sisymbrium irio</i> |

APPLICATION: As a preemergence and/or postemergence treatment, apply in a minimum of 40 gallons of water per acre depending upon density of emerged weeds. Spray coverage is essential for good postemergence weed results. Best preemergence results are achieved when spray is applied to a relatively weed-free soil surface or berm. Tank mixtures containing GOAL 2E herbicide should be directed to the soil and the base of trees or dormant vines. Use a low-pressure sprayer equipped with a break-away boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired. Spray equipment should be calibrated carefully before each use.

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 Devrinol, KERB, simazine or Surflan to the spray tank. Then add the recommended amounts of GOAL 2E herbicide and paraquat or Roundup during the filling operation. Complete filling of the spray tank with water and then add 1 quart of a nonionic surfactant such as TRITON AG-S8 or comparable 80% active nonionic surfactant cleared for application to growing crops, per each 100 gallons of spray. Maintain agitation until spraying is completed.

CULTURAL CONSIDERATIONS: In addition to details previously listed under "GOAL 2E Herbicide Used Alone", read all individual manufacturers' labels. In interpreting all labels for the tank mixture, the most restrictive label specifications must apply.

SPECIFIC USE RESTRICTIONS - GOAL 2E Herbicide Tank Mixes

In addition to the following, also observe all specific use restrictions previously listed under "GOAL 2E Herbicide Used Alone".

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

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