

14 JUN 1993

Mr. William T. Lynch  
Rohm and Haas Company  
Independence Mall West  
Philadelphia, PA 19105

Dear Mr. Lynch:

Subject: GOAL 1.6E Herbicide  
EPA Registration No. 707-174  
Your Application Dated December 18, 1992 Requesting  
a Change in the Treefruit/Nut/Vine Use Herbicide  
Use Directions

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provision:

Note that this acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). If any of your products are covered by the WPS, you are required to submit, and receive the Agency's approval by April 21, 1994, of a revised label reflecting the required label statements of 40 CFR 156, published in the FEDERAL REGISTER on August 21, 1992 (57 FR 38102). Further guidance will be issued. According to 40 CFR 156, subpart K, specifically § 156.200(c)(3): "No product to which this subpart applies shall be distributed or sold without amended labeling by any registrant after April 21, 1994."

A stamped copy is enclosed for your records. Please submit three (3) final printed copies for the referenced label before releasing the product for shipment.

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosure

CONCURRENCES							
SYMBOL	H7505C						
SURNAME	Morgan						
DATE	6/10/93						

**ROHM AND HAAS COMPANY**

INDEPENDENCE MALL WEST  
PHILADELPHIA, PENNSYLVANIA 19106

EPA Reg. No. 707-174  
EPA Est. No. 707-PA-1

2077



**SUPPLEMENTAL LABELING FOR GOAL® 1.6E HERBICIDE**

**DIRECTIONS FOR USE**

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

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.

**GENERAL INFORMATION**

GOAL 1.6E 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 1.6E herbicide is applied to seedling weeds. For postemergence control of certain grassy and broadleaf weeds, a tank mixture of GOAL 1.6E herbicide with either paraquat (Gramoxone) or glyphosate (Roundup) can be used.

For preemergence control of susceptible grassy and broadleaf weeds in certain treefruit, nut or vine plantings, a tank mixture of GOAL 1.6E herbicide with napropamide (Devrinol), diuron (Karmex), pronamide (KERB®), simazine, norflurazon (Solicam) or oryzalin (Surflan) can be applied. Contact herbicides such as paraquat (Gramoxone) or glyphosate (Roundup) may also be added to the tank mixture.

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

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide registered under EPA Reg. No. 707-174  
In EPA Letter Date

**GOAL 1.6E HERBICIDE USED ALONE**

**GEOGRAPHIC USE DIRECTIONS**

**ARIZONA AND CALIFORNIA**

**DOSAGE**

GOAL 1.6E herbicide is recommended for postemergence control at 2.5 to 10 pints (0.5 to 2.0 lb. active) per broadcast acre. For preemergence control of susceptible weeds, use 6 to 10 pints (1.2 to 2.0 lb. active) per broadcast acre. Jik

14 JUN 1993  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide registered under EPA Reg. No. 707-174

**WEEDS CONTROLLED POSTEMERGENCE (weeds up to 4 inches high) - Apply 2.5 to 10 pints (0.5 to 2.0 lb. active) of GOAL 1.6E herbicide per broadcast acre. Applications to weeds beyond the 4 inch stage may result in partial control.**

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

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

\* GOAL 1.6E herbicide at the 10 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 10 pints (1.2 to 2.0 lb. active) of GOAL 1.6E herbicide per broadcast acre.**

BURCLOVER  
CHEESEWED (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

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

**DOSAGE**

GOAL 1.6E herbicide is recommended for postemergence control at 2.5 to 10 pints (0.5 to 2.0 lb. active) per broadcast acre. For preemergence control of susceptible weeds, use 6 to 10 pints (1.2 to 2.0 lb. active) per broadcast acre.

**WEEDS CONTROLLED POSTEMERGENCE - Apply 2.5 to 10 pints (0.5 to 2.0 lb. active) of GOAL 1.6E 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 (TEAWEEED)  
SMARTWEED, PENNSYLVANIA  
SOWTHISTLE, ANNUAL  
VELVETLEAF

\*Maximum 0.5 inch diameter.

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\*\* Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 10 pints (2.0 lb. active) per broadcast acre of GOAL 1.6E herbicide in one season.

WEEDS CONTROLLED PREEMERGENCE - Apply 6 to 10 pints (1.2 to 2.0 lb. active) of GOAL 1.6E herbicide per broadcast acre.

- |                            |                         |
|----------------------------|-------------------------|
| CAMPORNEED                 | PIGNEED, REDROOT        |
| CUDNEED, NARROWLEAF        | POINSETTIA, WILD        |
| **EVENINGPRIMROSE, CUTLEAF | SIDA, PRICKLY           |
| GROUNDCHERRY, CUTLEAF      | SMARTWEED, PENNSYLVANIA |
| JIMSONWEED                 | SOWTHISTLE, ANNUAL      |
| LAMBSQUARTERS, COMMON      | SPURGE, PROSTRATE       |
| NIGHTSHADE, AMERICAN BLACK | SPURGE, SPOTTED         |
| NIGHTSHADE, BLACK          | VELVETLEAF              |
| PEPPERWEED, VIRGINIA       |                         |

\*\* Highest rate and/or multiple applications may be required for acceptable control. Do not apply more than 10 pints (2.0 lb. active) per broadcast acre of GOAL 1.6E herbicide in one season.

**ALL STATES  
TIMING AND METHOD OF APPLICATION**

In Arizona and California, applications of GOAL 1.6E herbicide should not be made from February 15 until completion of final harvest. In Coachella Valley (California), do not apply to grapes from February 1 until completion of final harvest.

In all states, do not apply GOAL 1.6E herbicide after buds start to swell until completion of final harvest. Do not apply when fruit/nuts are present. GOAL 1.6E herbicide can be applied upon completion of final harvest.

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 1.6E herbicide should be directed to the soil and the base of 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 1.6E herbicide application on tree or vine plantings.

**SPRAY VOLUME:**

- Weed Stage
- Preemergence
- Postemergence
- (up to 4 inch or 4 leaf stage)
- Exceeding 4 inch or 4 leaf stage

- Gallons of Water
- per Acre
- 40 or more
- 40 or more
- 100 or more

*do not*

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**CULTURAL CONSIDERATIONS**

In order for GOAL 1.6E 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 1.6E 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 1.6E. 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 1.6E herbicide where postemergence weed control is desired, add 2 to 4 pints of LATRON 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 LATRON 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.

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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 1.6E herbicide used per acre should be reduced according to the following formula:

<u>Band Width (in inches)</u>	Rate per	Amount Needed per Acre
	X	=
Row Width (in inches)	Broadcast Acre	for Banded Application

**TANK MIXES WITH GOAL 1.6E 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 bearing and nonbearing treefruit, nut or vine plantings, a tank mixture of Goal 1.6E with napropamide (Devrinol), diuron (Karmex), pronamide (KERB), simazine, norflurazon (Solicam) or oryzalin (Surflan) can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

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For postemergence control of susceptible grassy and broadleaf weeds in certain treefruit, nut or vine plantings, a tank mixture of paraquat (Gramoxone) or glyphosate (Roundup) with GOAL 1.6E herbicide or combinations of GOAL 1.6E herbicide plus napropamide (Devrinol), diuron (Karmex), pronamide (KERB), simazine, norflurazon (Solicam) or oryzalin (Surflan) with either paraquat (Gramoxone) or glyphosate (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 1.6E herbicide used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

- |                          |                                     |
|--------------------------|-------------------------------------|
| diuron (Karmex) —        | oryzalin (Surflan) —                |
| glyphosate (Roundup) —   | paraquat (Gramoxone) — <i>Super</i> |
| napropamide (Devrinol) — | pronamide (KERB) —                  |
| norflurazon (Solicam) —  | *simazine —                         |

\*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.

- Do not apply GOAL 1.6E herbicide (either alone or in any combination recommended on this label) after buds start to swell until completion of final harvest. Do not apply when fruit/nuts are present. GOAL 1.6E can be applied upon completion of final harvest.
- IN ARIZONA AND CALIFORNIA, DO NOT APPLY GOAL 1.6E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO TREE OR VINE PLANTINGS AFTER FEBRUARY 15 UNTIL COMPLETION OF FINAL HARVEST. DO NOT APPLY GOAL 1.6E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO GRAPES IN THE COACHELLA VALLEY (CALIFORNIA) FROM FEBRUARY 1 UNTIL COMPLETION OF FINAL HARVEST. GOAL 1.6E CAN BE APPLIED UPON COMPLETION OF FINAL HARVEST.
- Do not apply more than 10 pints (2.0 lb. active) per broadcast acre of GOAL 1.6E 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 vines are free-standing.
- GOAL 1.6E 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.

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**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.**

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