

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

12 MAY 1993

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

Dear Dr. Lynch:

Subject: Label Amendment - supplemental label for use on Cacao
GOAL 1.6E Herbicide
EPA Registration Number 707-174
Your Submission Dated October 12, 1992

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

1. Under Mixing Directions, add the statement "Read and observe all label directions before using. When tank mixing always read all individual manufacturer's labels. In interpreting all labels for the tank mix, the most restrictive situations must apply."

2. Under Mixing Directions, delete the reference to "paraquat (Gramoxone)." Paraquat does not have a tolerance for use in or on cocoa beans.

A stamped copy is enclosed for your records. Please submit three (3) copies of your final printed label with the corrections referred to above made.

Sincerely Yours,

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

Enclosure

CONCURRENCES							
SYMBOL	H7505C						
SURNAME	Robbins						
DATE	5/12/93						

ROHM AND HAAS COMPANY

INDEPENDENCE MALL WEST
PHILADELPHIA, PENNSYLVANIA 19105

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ACCEPTED
with COMMENTS
in EPA Letter Dated

12 MAY 1992

GOAL 1.6E

EPA REG. NO. 707-174-AA

EPA EST. NO. 707-PA-1 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 707-174

CACAO

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 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 herbicide when used alone for the control of certain annual broadleaf weeds in bearing and nonbearing cacao plantings. 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 herbicide effectiveness of GOAL 1.6E may be decreased. Seedling weeds are controlled as they come in contact with soil applied herbicide during emergence.

GOAL 1.6E HERBICIDE USED ALONE

DOSAGE

GOAL 1.6E herbicide is recommended for preemergence and postemergence control of susceptible weeds at 2.5 to 10 pints (0.5 to 2.0 lb. active) per broadcast acre when directed to the orchard floor beneath cacao plants, or at a dosage of up to 5 pints per acre as a pre-transplant application.

For directed spray applications, cocoa transplants must be healthy and of suitable size for field transplanting. Avoid spray contact with cacao foliage as injury may result.

Dosages listed 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.

Band Width (in.) X Rate per = Amount Needed per Acre
Row Width (in.) Acre Broadcast for Banded Application

NEEDS CONTROLLED POSTEMERGENCE

Apply 2.5 to 10 pints (0.5 to 2.0 lbs. active) of GOAL 1.6E herbicide per broadcast acre. Applications to weeds beyond the four leaf stage may result in partial control.

PURSLANE, COMMON
SPURGE, GARDEN

Portulaca oleracea
Euphorbia hirta

NEEDS CONTROLLED PREEMERGENCE

Apply 2.5 to 10 pints (0.5 to 2.0 lbs. active) of GOAL 1.6E herbicide per broadcast acre.

AGERATUM
BUTTONWEED
CROTALARIA
PURSLANE, COMMON
SPURGE, GARDEN

Ageratum conyzoides
Borreria laevis
Crotalaria species
Portulaca oleracea
Euphorbia hirta

TIMING AND METHOD OF APPLICATION

DO NOT APPLY PREPLANT OR PREEMERGENCE TO DIRECT SEEDED CACAO. TREATMENTS CAN BE MADE TO ESTABLISHED CACAO OR AS A PRETRANSPLANT OR RECENTLY TRANSPLANTED CACAO.

Treatments should only be applied to healthy coffee stock (as determined by standard commercial growing practices). Care must be taken to prevent direct spray contact with foliage. Cacao foliage receiving accidental spray or drift may be injured.

As a preemergence or postemergence treatment to weeds, apply in a minimum of 15 gallons of water per acre. Use higher volumes to assure adequate coverage in high densities of emerged weeds or heavy trash. GOAL 1.6E herbicide should be directed to the soil and the base of the tree. Use of a low pressure sprayer equipped with a breakaway boom and flat fan or off-center (OC) nozzles is recommended. Spray shields are suggested for use in young trees. Spray equipment should be calibrated carefully before each use.

MIXING DIRECTIONS:

Read and observe all label directions before using when tank mixing. Always read all individual manufacturer's labels. In interpreting all labels for the tank mix, the most restrictive situation must apply.

Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the recommended amount of GOAL 1.6E herbicide to the spray tank. If tank mixing, add the recommended amounts of glyphosate (Roundup) or paraquat (Gramoxone). Complete filling of the spray tank with water. 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. Maintain agitation until spraying is completed.

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 or weed trash (decaying leaves, clippings, dead weeds, etc.). Leaves and

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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.

beds

After application, at least one-quarter inch (1/4 inch) of water should occur within 3 or 4 weeks after application. The best results 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.

CACAO - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe the GENERAL USE RESTRICTIONS on the GOAL 1.6E herbicide product label.

- Read and observe all label directions before using.
 - Do not apply more than 10 pints (2.0 lb. active) per broadcast acre of GOAL 1.6E herbicide in a single application or 30 pints (6.0 lb. active) per broadcast acre per year.
 - Do not apply GOAL 1.6E herbicide within one (1) day of harvest.
 - Direct spray toward the base of the trees. Avoid spray contact with foliage.
 - Do not apply preplant or preemergence to direct seeded cacao.
- Do not feed or allow animals to graze on any areas treated by Goal 1.6E herbicide.

CONDITIONS OF SALE AND WARRANTY

Rohm and Haas Company 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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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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12 MAY 1993

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

Dear Dr. Lynch:

Subject: Label Amendment - supplemental label for use in or on
 garbanzo beans in California
 GOAL 1.6E Herbicide
 EPA Registration Number 707-174
 Your Submission Dated October 12, 1992

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

1. Change the wording under, Timing and Method of Application so the paragraph reads "As a pre-emergence application, apply in a minimum of 25 gallons of water per acre. Use conventional ground spray equipment to make a single broadcast application, after planting but prior to weed and crop emergence, with flat fan or hollow cone nozzles. Spray equipment should be calibrated carefully before each use."

2. Under, Garbanzo Bean - Specific Use Restrictions, add the restriction of "Do not feed bean, vines, or hay."

A stamped copy is enclosed for your records. Please submit three (3) copies of your final printed label with the corrections referred to above made.

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Sincerely Yours,

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

CONCURRENCES

Enclosure							
SYMBOL	H7505C						
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ROHM AND HAAS COMPANY

INDEPENDENCE MALL WEST
PHILADELPHIA, PENNSYLVANIA 19105

ACCEPTED
with COMMENTS
in EPA Letter Dated

GOAL 1.6E

EPA REG. NO. 707-174-AA

EPA EST. NO. 707-PA-

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

GARBANZO BEAN (For Use Only In California)

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 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 herbicide when used alone for the control of certain annual broadleaf weeds in garbanzo beans. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Seedling weeds are controlled as they come in contact with soil applied herbicide during emergence. Timely cultivations will usually assist in weed control.

Garbanzo beans are tolerant to preemergence applications of GOAL 1.6E herbicide; however, under certain conditions, GOAL 1.6E herbicide can cause severe but temporary crop injury. Heavy splashing rain shortly after crop emergence or wet soil conditions during early growth stages can produce leaf cupping, crinkling, stunting or defoliation of the garbanzo seedlings. When injury occurs, it is often limited to the first few leaves that develop shortly after crop plants emerge from the soil. Delays in crop development and/or maturity may result. Garbanzo beans do recover from this injury with little to no impact on yield.

**GOAL 1.6E HERBICIDE USED ALONE
DOSAGE**

GOAL 1.6E herbicide is recommended for preemergence control of susceptible winter annual broadleaf weeds at 1.25 pints (0.25 lb. active) per broadcast acre.

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WEEDS CONTROLLED PREEMERGENCE

GOAL 1.6E herbicide used alone at recommended dosages provides preemergence control of the following broadleaf weeds:

- | | |
|------------------------|-------------------|
| GROUNDSEL, COMMON | Senecio vulgaris |
| MALLOW, LITTLE (Malva) | Malva parviflora |
| ROCKET, LONDON | Sisymbrium irio |
| SHEPHERDSPURSE | Chenopodium album |

To make a broadcast application after planting but prior to weed emergence 25 gals

*7/10/1991
730E Review*

TIMING AND METHOD OF APPLICATION

As a preemergence application, apply in a minimum of 20 gallons of water per acre. Use conventional spray equipment with flat fan or hollow cone nozzles. 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 GOAL 1.6E herbicide to the spray tank. Complete filling of the spray tank with water. Maintain agitation until spraying is completed.

CULTURAL CONSIDERATIONS

The best results from GOAL 1.6E herbicide are from applications to 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.

GARBANZO BEAN - SPECIFIC USE RESTRICTIONS

In addition to the following, also observe the GENERAL USE RESTRICTIONS on the GOAL 1.6E herbicide product label.

- Read and observe all label directions before using. ✓
- Do not apply more than 1.25 pints (0.25 lb. active) per broadcast acre... of GOAL 1.6E herbicide in a single application.
- For application only in California. ✓

→ Do not... Vines...

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