

10616  
23

707-174

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

SEP 26 1985

Dear Dr. Rogerson:

Subject: Minor Revisions, Conifer Seedbeds, Transplants  
and Container Stock: Additional Conifers  
and Weed Species  
GOAL 1.6 Herbicide  
EPA Registration No. 707-174  
Your Submissions Dated September 20, 1985

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

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. Reinstate:

Not for Conifer Release in Forest Management  
Programs or for Forest Regeneration Applications.

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

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

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

Enclosure

RD/FHB:JOB:89583:Mountfort:RD-66:KENCO:9/25/85:del.10/03/85:dej

CONCURRENCES

SYMBOL ▶							
SURNAME ▶							
DATE ▶							

20616

# ROHM AND HAAS COMPANY

EPA REG. NO. 707-174-AA  
EPA EST. NO. 707-PA-1

INDEPENDENCE MALL WEST  
PHILADELPHIA, PENNSYLVANIA 19105



## SUPPLEMENTAL LABELING FOR GOAL<sup>R</sup> 1.6E HERBICIDE

### DIRECTIONS FOR USE

CONIFER SEEDBEDS,  
TRANSPLANT AND CONTAINER STOCK,

### GENERAL INFORMATION

GOAL 1.6E is effective as a preemergence and/or postemergence herbicide for the control of certain annual grass and broadleaf weeds in conifer seedbeds, transplant and conifer stock. The most effective postemergence weed control is achieved when GOAL 1.6E 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 1.6E 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 to GOAL 1.6E herbicide. Care should be taken to insure that the particular variety to be sprayed with GOAL 1.6E 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 1.6E herbicide is applied preemergence or postemergence at recommended dosages and weed stages, the following grasses and broadleaf weeds are controlled:

### WEEDS CONTROLLED

- |                     |                        |
|---------------------|------------------------|
| *BARNYARDGRASS      | Echinochloa crus-galli |
| BEDSTRAW, CATCHWEED | Galium aparine         |
| BITTERCRESS, LESSER | Cardamine oligosperma  |
| *BLUEGRASS, ANNUAL  | Poa annua              |
| BUCKWHEAT, WILD     | Polygonum convolvulus  |
|                     |                        |
| BURCLOVER           | Medicago hispida       |
| CARPETWEED          | Mollugo verticillata   |
| *CHICKWEED, COMMON  | Stellaria media        |
| *CHICKWEED, STICKY  | Cerastium viscosum     |
| *CLOVER, RED        | Trifolium pratense     |
|                     |                        |
| *CLOVER, WHITE      | Trifolium repens       |
| COCKLEBUR, COMMON   | Xanthium pensylvanicum |
| *CRABGRASS, LARGE   | Digitaria sanguinalis  |
| *FIDDLENECK, COAST  | Amsinckia intermedia   |
| FILAREE, BROADLEAF  | Erodium botrys         |

**ACCEPTED**  
*with comment*  
SEP 26 1985  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 707-174

FILAREE, REDSTEM	<i>Erodium cicutarium</i>
FIREWEED (FROM SEED)	<i>Epilobium angustifolium</i>
FLIXWEED	<i>Descurainia sophia</i>
*FOXTAIL, GIANT	<i>Setaria faberi</i>
*GOOSEGRASS	<i>Eleusine indica</i>
GROUNDCHERRY, CUTLEAF	<i>Physalis angulata</i>
GROUNDCHERRY, WRIGHT	<i>Physalis wrightii</i>
GROUNDSEL, COMMON	<i>Senecio vulgaris</i>
HENBIT	<i>Lamium amplexicaule</i>
JIMSONWEED	<i>Datura stramonium</i>
KNOTWEED, PROSTRATE	<i>Polygonum aviculare</i>
LADYSTHUMB	<i>Polygonum persicaria</i>
LAMBSQUARTERS, COMMON	<i>Chenopodium album</i>
LETTUCE, PRICKLY	<i>Lactuca serriola</i>
MALLOW, LITTLE	<i>Malva parviflora</i>
MAYWEED	<i>Anthemis cotula</i>
MINERSLETTUCE	<i>Montia perfoliata</i>
*MORNINGGLORY, IVYLEAF	<i>Ipomoea hederacea</i>
*MORNINGGLORY, TALL	<i>Ipomoea purpurea</i>
MUSTARD, BLUE	<i>Chorispora tenella</i>
MUSTARD, TUMBLE	<i>Sisymbrium altissimum</i>
MUSTARD, WILD	<i>Brassica kaber</i>
NETTLE, BURNING	<i>Urtica urens</i>
NIGHTSHADE, BLACK	<i>Solanum nigrum</i>
NIGHTSHADE, HAIRY	<i>Solanum sarachoides</i>
OATS, WILD	<i>Avena fatua</i>
ORACH, RED	<i>Atriplex rosea</i>
PEPPERWEED, YELLOW FLOWER	<i>Lepidium perfoliatum</i>
PIGWEED, PROSTRATE	<i>Amaranthus blitoides</i>
PIGWEED, REDROOT	<i>Amaranthus retroflexus</i>
PIMPERNEL, SCARLET	<i>Anagallis arvensis</i>
PURSLANE, COMMON	<i>Portulaca oleracea</i>
REDMAIDS	<i>Calandrinia caulescens</i>
ROCKET, LONDON	<i>Sisymbrium irio</i>
SANDSPURRY, RED	<i>Spergularia rubra</i>
*SHEPHERDSPURSE	<i>Capsella bursa-pastoris</i>
SIDA, PRICKLY	<i>Sida spinosa</i>
SMARTWEED, PENNSYLVANIA	<i>Polygonum pennsylvanicum</i>
SORREL, RED (FROM SEED)	<i>Rumex acetosella</i>
SOWTHISTLE, ANNUAL	<i>Sonchus oleraceus</i>
SPEEDWELL, BIRDSEYE	<i>Veronica persica</i>
**SPURGE, PROSTRATE	<i>Euphorbia supina</i>
**SPURGE, SPOTTED	<i>Euphorbia maculata</i>
SPURRY, CORN	<i>Spergula arvensis</i>
TANSY/MUSTARD	<i>Descurainia pinnata</i>
**THISTLE, BULL	<i>Cirsium vulgare</i>
THISTLE, RUSSIAN	<i>Salsola kali</i>

VELVETLEAF  
WITCHGRASS  
\*\*WOODSORREL, YELLOW

Abutilon theophrasti  
Panicum capillare  
Oxalis stricta

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

GOAL 1.6E 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 1.6E 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 1.6E herbicide. Applied postemergence, GOAL 1.6E herbicide will provide both postemergence and residual preemergence control of many broadleaf weeds and annual grass species.

CONIFER SPECIES

GOAL 1.6E herbicide may be applied to conifer seedbeds of numerous species including the following:

DOUGLAS-FIR

*Pseudotsuga menziesii*

FIR

GRAND  
FRASER  
NOBLE

*Abies grandis*  
*Abies fraseri*  
*Abies procera*

HEMLOCK

EASTERN HEMLOCK

*Tsuga canadensis*

PINE

AUSTRIAN  
EASTERN WHITE  
JACK  
HIMALAYAN  
LOBLOLLY  
LODGEPOLE  
LONGLEAF  
MONTEREY  
MUGHO  
PONDEROSA

*Pinus nigra*  
*Pinus strobus*  
*Pinus banksiana*  
*Pinus graffithii*  
*Pinus taeda*  
*Pinus contorta*  
*Pinus palustris*  
*Pinus radiata*  
*Pinus mugo*  
*Pinus ponderosa*

PINE  
SCOTCH  
SHORTLEAF  
SLASH  
VIRGINIA

Pinus sylvestris  
Pinus echinata  
Pinus elliotii  
Pinus virginiana

SPRUCE  
BLUE  
DWARF ALBERTA  
NORWAY  
SITKA

Picea pungens  
Picea glauca conica  
Picea abies  
Picea sitchensis

PREEMERGENCE DOSAGE ✓

Apply 1.25 to 5 pints (0.25 to 1.0 lb. active) of GOAL 1.6E herbicide per broadcast acre as a preemergence application. Where grassy weeds are present, a minimum rate of 2.5 pints (0.5 lb. active) of GOAL 1.6E herbicide per broadcast acre is suggested. In known areas of high weed competition, 5 pints (1.0 lb. active) of GOAL 1.6E herbicide per broadcast acre are recommended.

TIMING AND METHOD OF APPLICATION

Apply recommended dosage after seeding but prior to conifer emergence. GOAL 1.6E 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 1.25 to 2.5 pints (0.25 to 0.5 lb. active) of GOAL 1.6E 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 1.6E 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.

OK  
Ornamental  
trees &  
Terrestrial  
non-forest

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 1.6E herbicide. Applied postemergence, GOAL 1.6E 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 1.6E herbicide.

ARBORVITAE

Thuja occidentalis  
Thuja orientalis

JUNIPER

Juniperus chinensis  
Juniperus horizontalis  
Juniperus procumbens  
Juniperus sabina  
Juniperus scopulum

RED CEDAR

Juniperus virginiana

WESTERN HEMLOCK

Tsuga heterophylla

YEW

Taxus species

DOSAGE

For preemergence or postemergence weed control apply 5 to 10 pints (1.0 to 2.0 lb. active) of GOAL 1.6E 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 1.6E herbicide activity on emerged weeds. GOAL 1.6E herbicide must be applied only to conifer transplants prior to budbreak 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.

SPECIFIC USE RESTRICTIONS - GOAL 1.6E HERBICIDE

The following specific use restrictions should be observed when GOAL 1.6E herbicide is used as recommended on this label.

- . Follow General Use Restrictions listed on the GOAL 1.6E herbicide label.
- . Do not apply GOAL 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 1.6E herbicide only to healthy conifer stock. Do not apply GOAL 1.6E herbicide to conifers which 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.

JAH:flp  
(3330H/85Z)

*Reevaluate Not for Conifer  
Release in Forest Management  
Programs or for Forest  
Regeneration Applications*

807 16

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

SEP 26 1985

Dear Dr. Rogerson:

Subject: Container Label Revisions  
GOAL 1.6E Herbicide  
EPA Registration No. 707-174  
Your Submission Dated September 20, 1985

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

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. In the If Swallowed section reinstated

Do not induce vomiting.

b. We suggest the Note to Physician Statement read as follows:

Contains petroleum distillates. Aspiration hazard may contraindicate the use of gastric lavage.

The label should indicate that petroleum distillates present an aspiration hazard.

c. Modify the environmental hazards statement to read:

Do not apply directly to water or wetlands.

Refer to the proposed 40 CFR §156.55(c)(2) published in the Federal Register on September 26, 1984, page 37983.

RD/FHB:JOB:89583:Mountfort:RD-66:KENCO:9/25/85:del.10/03/85:dej

CONCURRENCES

SYMBOL ▶							
SURNAME ▶							
DATE ▶							

90716

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

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

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

Enclosure

100816

# Goal<sup>®</sup> 1.6E HERBICIDE

ACCEPTED  
with comments  
SEP 26 1985  
EPA Reg. No. 707-174



**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 . . . . . 19.4%  
**INERT INGREDIENTS** . . . . . 80.6%  
100.0%

\*Equivalent to 1.6 lbs active ingredient per gallon  
EPA Reg No 707-174  
FPA Est No 707-PA-1  
US Pat No 3 798 276

"Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente."

110616

**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 with plenty of water. Get medical attention.

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

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF SWALLOWED:** Do not induce vomiting. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

**Environmental Hazards**

Do not apply directly to water. 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

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 1984 Rohm and Haas Company

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

**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.

9541-Rd

MADE IN U.S.A

All label text remain unchanged except on the following sections listed below:

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. Get medical attention.

IF SWALLOWED: 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: Petroleum distillates are present. Evacuation of the stomach might be advisable.

Environmental Hazards

"Do not apply to water or wetlands." Do not contaminate water.....(all this text remains unchanged).

*Handwritten notes:* 110616 (2) pag. 2703

120616

# ROHM AND HAAS COMPANY

INDEPENDENCE MALL WEST  
PHILADELPHIA, PENNSYLVANIA 19105



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

## Supplemental Labeling for Aerial Application of GOAL<sup>R</sup> 1.6E Herbicide on Fallow Beds

For use only in California and Arizona

TREATMENTS MUST BE MADE OCTOBER 1 THROUGH MARCH 31.

### 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

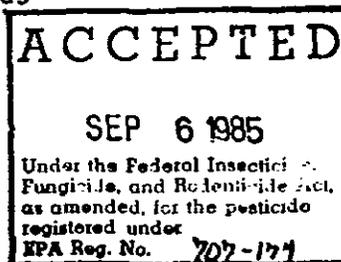
GOAL 1.6E is effective as a preemergence herbicide when used alone or as a postemergence herbicide when applied in a tank mix combination with Roundup<sup>R</sup> for the control of winter annual broadleaf weeds in fallow beds. Do not apply within 14 days of planting. The fallow beds should be worked with a 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.

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 1.6E herbicide fallow bed application.

### GOAL 1.6E HERBICIDE USED ALONE DOSAGE

GOAL 1.6E herbicide may be applied at 1.25 to 2.5 pints (0.25 to 0.5 lb. active) per broadcast acre. The lower rate (1.25 pints 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 (2.5 pints per acre) should provide preemergence control of susceptible weeds for up to 8 weeks and postemergence activity on susceptible weeds up to 6 leaf stage. Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks following application.



WEEDS CONTROLLED

GOAL 1.6E 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
MINERSLETTUCE	Montia perfoliata
MUSTARD, BLACK	Brassica nigra
NETTLE, BURNING	Urtica urens
REDMAIDS	Calandrinia caulescens
ROCKET, LONDON	Sisymbrium irio
SHEPHERDSPURSE	Capsella bursa-pastoris
SOWTHISTLE, ANNUAL	Sonchus oleraceus

\*Thorough spray coverage is essential to maximize the postemergence activity of GOAL 1.6E herbicide. For postemergence control, a tank mixture of GOAL 1.6E herbicide with Roundup is recommended.

AERIAL APPLICATION

GOAL 1.6E 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 1.6E - 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 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 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 1.6E 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 1.6E 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 1.6E 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.).

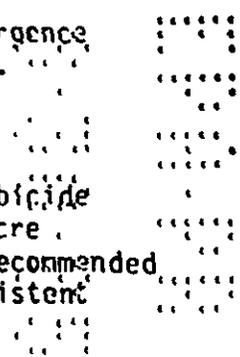
For best preemergence activity, irrigation or rainfall should occur within 3 or 4 weeks after application. Cultural practices which result in redistribution or disturbance of the soil surface after treatment will decrease the herbicidal effectiveness of GOAL 1.6E. The best results from GOAL 1.6E herbicide are from applications to established beds or soil surfaces which are left undisturbed during the time period for which weed control is desired.

**GOAL 1.6E HERBICIDE - TANK MIXES  
DOSAGE**

GOAL 1.6E herbicide can be tank mixed with Roundup to obtain postemergence control of annual grassy weeds, volunteer grains and broadleaf weeds.

**GOAL 1.6E-Roundup Tank Mix:**

Tank mix 1.25 to 2.5 pints (0.25 to 0.5 lb. active) of GOAL 1.6E 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.



TANK MIXING DIRECTIONS

Fill the spray tank at least one-third full of clean water. Add the recommended amounts of GOAL 1.6E herbicide and then 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 1.6E HERBICIDE (EITHER ALONE OR IN ANY COMBINATION RECOMMENDED ON THIS LABEL) TO FALLOW BEDS BEFORE OCTOBER 1 OR AFTER MARCH 31.
- . GOAL 1.6E herbicide should be applied only as specifically directed on this label or on other approved Rohm and Haas Company labeling.
- . Do not apply more than 2.5 pints (0.5 lb. active) of GOAL 1.6E herbicide per acre, per fallow season.
- . Do not apply GOAL 1.6E herbicide within 14 days of planting.
- . Do not rotate to any crops other than cotton or soybeans for 10 months following a GOAL 1.6E herbicide fallowbed application.
- . Do not contaminate irrigation water or water used for domestic purposes.
- . Do not use any plants treated with GOAL 1.6E herbicide for feed or forage.
- . Do not feed or allow animals to graze on any areas treated with GOAL 1.6E herbicide.
- . Do not apply when weather conditions favor drift. Avoid drift to all non-target areas. GOAL 1.6E herbicide is phytotoxic to plant foliage.
- . Thoroughly flush spray equipment (tank, pump, hoses and boom) with clean water before and after end use. Residual GOAL 1.6E 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 one quart per 100 gallons of water during flushing.
- . Use GOAL 1.6E herbicide only for recommended purposes and at recommended rates.
- . Do not treat ditch banks or waterways with GOAL 1.6E herbicide.

GOAL, TRITON and AG-98 are trademarks of Rohm and Haas Company.

ROUNDUP<sup>®</sup> is a registered trademark of Monsanto Company.



