

Prefar

4-E

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Selective Herbicide

1. What is the purpose of the document?
 The purpose of the document is to provide a detailed description of the project's objectives, scope, and timeline. It also outlines the roles and responsibilities of the team members and the resources required for the project.

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

**emulsifiable liquid for
control of annual grasses
and broadleaf weeds**

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Statement of Practical Treatment

Keep Out Of Reach Of Children

CAUTION

FIRST AID

NOTE: The following information is for informational purposes only and is not intended to be used as a basis for any action.

TO MEDICAL PERSONNEL:

1. *Proprietary*
 2. *Artificial*

allowed to be
continued;
to be continued;
to be continued;
to be continued;

1. SKIN CONTACT

For eye contact

1980

2013 OFF CAMPUS MEDICAL CENTER

For more information, contact:

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

- **Prevalence:** 10-15% in the general population
- **Incidence:** 1-2% per year
- **Risk factors:**
 - Age (increases with age)
 - Family history
 - Obesity
 - Hypertension
 - Diabetes

**emulsifiable liquid for
control of annual grasses
and broadleaf weeds**



● **Figure 1** shows the results of the regression analysis. The dependent variable is the number of days of absence from work due to illness. The independent variables are the age, sex, and duration of employment. The results show that the number of days of absence from work due to illness increases with age, sex, and duration of employment. The coefficient of age is 0.001, the coefficient of sex is 0.002, and the coefficient of duration of employment is 0.003. The adjusted R-squared value is 0.001.

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

[illegible]

Read all label directions before using
 For more information, see page 10

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ACTIVE INGREDIENT:

Bensulide: S-(0,0-Diisopropyl phosphorodithioate) ester of
N-(2-mercaptoethyl)benzenesulfonamide. . . 46.0%

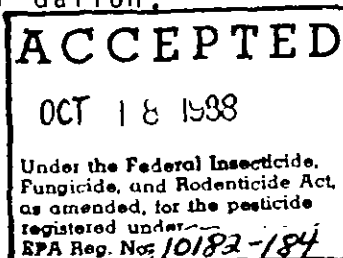
INERT INGREDIENTS: 54.0%
100.0%

Contains 4 Pounds Of Active Ingredient Per Gallon.

KEEP OUT OF REACH OF CHILDREN

C A U T I O N

STATEMENT OF PRACTICAL TREATMENT



If a known exposure occurs or is suspected, immediately start the procedures given below and simultaneously contact a Poison Center, a physician, or the nearest hospital.

NOTE: Be sure to advise the person contacted that the active ingredient in this compound is a cholinesterase inhibitor. Describe the type of exposure, the victim's symptoms, and follow the advice given.

NOTE TO MEDICAL PERSONNEL: Should cholinesterase inhibition occur, atropine by injection is antidotal. 2-PAM (Protopam Chloride) is also antidotal when administered early and in conjunction with atropine.

IF SWALLOWED, immediately give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

FOR SKIN CONTACT, flush all affected areas with plenty of water for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation occurs.

FOR EYE CONTACT, flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

IF INHALED, remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

FOR ADDITIONAL MEDICAL INFORMATION, CALL COLLECT, ICI AMERICAS INC., EMERGENCY MEDICAL ASSISTANCE, (800) 327-8633 or CHEMTREC, (800) 424-9300.

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PREFAR 4-E

2.

For other product information, contact your local ICI AMERICAS INC. Distributor or see Product Safety Information Sheet.

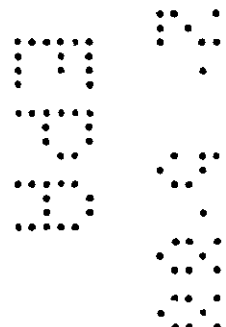
SEE ATTACHED BOOKLET FOR USE PRECAUTIONS, DIRECTIONS AND RECOMMENDATIONS.

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: United States of America

EPA Reg. No. 10182-184
EPA Est.

_____ Gal. Net _____ Litres
A-4R

Made in U.S.A. by
ICI AMERICAS INC.
AGRICULTURAL PRODUCTS
WILMINGTON, DE 19897



(LEFT PANEL)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

- Harmful if swallowed or absorbed through the skin.
- Avoid breathing spray mist.
- Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing.
- Wash thoroughly after handling and before eating or smoking.
- Wash all contaminated clothing with soap and hot water before re-use.

ENVIRONMENTAL HAZARDS

- This product is toxic to fish. Do not apply directly to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.
- Do not apply when weather conditions favor drift from area treated.

PHYSICAL HAZARDS

- Combustible. Do not use, store, pour, or spill near heat or open flame. Keep container closed when not in use.

STORAGE AND DISPOSAL

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

STORAGE: Protect from temperatures below 42°F. At temperatures below 42°F, product may crystalize. Dissolve crystals with quiet storage at warm temperatures (75°F). Redissolution rate: 40°-48°F (40-60days); or 60°F (1-3 weeks); 70°-80°F (1-3 days). Roll container and agitate contents to provide a uniform product prior to use.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

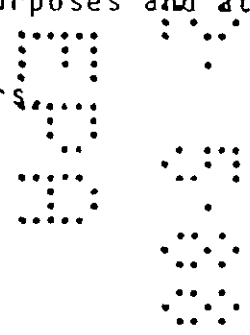
SPILL OR LEAK: Small spills can be handled routinely. Use adequate ventilation and wear an air-supplied respirator to prevent inhalation. Wear suitable protective clothing to prevent skin and eye contact. Use the following procedures:

1. Spread a suitable absorbent such as clay, sawdust or kitty litter on the spilled material.
2. Place sweepings in an appropriate chemical waste container.
3. Generously cover the contaminated areas with a common household detergent. Using a stiff brush and small amounts of water, work the detergent into the spill material forming a slurry. Do not splatter on one's self or bystanders and completely avoid skin or eye contact with this material. Brush the slurry into cracks and crevices and allow to stand for 2-3 minutes.
4. Spread absorbents on the slurried liquid and shovel the absorbed material into the container.
5. Repeat if necessary.
6. Flush the area with water while observing proper environmental considerations.
7. Seal container and dispose of in approved pesticide landfill.

Large spills should be handled according to a predetermined plan. For assistance in developing a plan, contact the Agricultural Products Division, ICI AMERICAS INC., Wilmington, DE 19897.

GENERAL USE PRECAUTIONS

- . READ ALL DIRECTIONS BEFORE USING.
- . MIX WELL BEFORE DILUTING WITH WATER.
- . PREFAR 4-E should be used only for recommended purposes and at recommended rates. (DO NOT OVERDOSE)
- . Do not apply in combination with fluid fertilizers.
- . Use on mineral soils only.
- . Do not contaminate irrigation water.



All crops specified on the label may be planted in rotation but do not apply PREFAR 4-E more often than once every 12 months. To avoid injury to crops not specified on the label do not plant until 18 months after the last PREFAR 4-E application. Soybeans may be planted 12 months after PREFAR 4-E application.

WEEDS CONTROLLED

Annual Grasses

Crabgrass (Digitaria spp.)
 Foxtail (Setaria spp.)
 Jungle Rice (Echinochloa colonum)
 Watergrass (Echinochloa crusgalli)
 Goosegrass (Eleusine indica)
 Fall Panicum (Panicum dichotomiflorum)
 Sprangletop (Leptochloa spp.)

Annual Broadleaf Weeds (Arizona, New Mexico, Texas and ten southern-most California counties only)

Lambsquarters (Chenopodium album)
 Redroot Pigweed (Amaranthus retroflexus)
 Purslane (Portulaca oleracea)

DIRECTIONS FOR USE

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

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

PREFAR 4-E is a selective herbicide which is applied pre-plant and mixed (incorporated) into the soil. On certain crops which are irrigated up, PREFAR 4-E may be applied to the soil surface after planting. PREFAR 4-E controls weeds as their seeds germinate by interfering with normal germination and seedling development.

SOIL PREPARATION: Prepare the soil according to good agricultural practice. PREFAR 4-E does not control emerged weeds and all weed growth and crop stubble must be thoroughly worked into the soil prior to application.

APPLICATION AND SOIL INCORPORATION: Spray equipment should be carefully calibrated before use and checked frequently during application to be sure nozzles are free from clogging and are delivering a uniform spray pattern. Apply uniformly the recommended rate of PREFAR 4-E in 10 to 50 gallons of water per acre.

Pre-plant Application: Apply to well-worked soil that is dry enough to permit thorough incorporation. Incorporate to a depth of 1 to 2 inches before planting. Use power driven rotary cultivators or other equipment which will result in satisfactory incorporation.

Pre-emergence Application: (For use only on crops that will be irrigated up). After planting apply PREFAR 4-E as a surface application. Follow immediately with irrigation (sprinkler or furrow). For sprinkler irrigation apply 1 inch of water, wetting the soil at least 2 to 4 inches deep. For furrow irrigation thoroughly saturate the entire bed top (completely black out bed top).

RECOMMENDATIONS

All rates are given on a broadcast basis. Reduce rate proportionately for band treatment.

COTTON

Pre-plant: Apply 5 to 6 quarts PREFAR 4-E per broadcast acre. Apply to the flat soil surface before furrowing (listing) for the pre-planting irrigation and then continue with normal practices.

OR

Apply after furrowing (listing) but before the pre-planting irrigation. Incorporate with a sectional, rolling cultivator.

OR

Apply after the pre-planting irrigation but before the final seed bed preparation.

Pre-plant:
(Arizona,
New Mexico &
Texas only)

For control of watergrass, jungle rice, foxtail and crabgrass only, apply 2 quarts PREFAR 4-E per broadcast acre. Use only on light, sandy soil.

Apply to the flat soil surface and thoroughly disc the PREFAR 4-E into the soil before furrowing (listing) for the pre-planting irrigation and then continue with normal practices.

OR

Apply after furrowing (listing). Incorporate with a sectioned, rolling cultivator. Follow with preplant irrigation.

PREFAR 4-E

7.

Pre-emergence: (Use only on cotton that will be irrigated up).
Apply 5 to 6 quarts PREFAR 4-E per broadcast acre
as a surface application.

- . CUCURBITS: (cucumbers, summer squash, winter squash, cantaloupes, crenshaw melons, muskmelons, persian melons, pumpkins, water-melons).

Apply, pre-plant, 5 to 6 quarts PREFAR 4-E per broadcast acre to flat-planted or bedded crops. Follow directions for APPLICATION AND SOIL INCORPORATION given on this label.

- . COLE CROPS: (broccoli, brussels sprouts, cabbage, cauliflower)

Apply, pre-plant or pre-emergence, 5 to 6 quarts PREFAR 4-E per broadcast acre. Follow directions for APPLICATION AND SOIL INCORPORATION given on this label. Use pre-emergence only on cole crops to be irrigated up.

(NOTE: Limit use on cabbage to Southern and California/Arizona growing regions.)

- . FRUITING VEGETABLES: (tomatoes [direct seeded and transplants], seeded bell peppers, chili peppers).

Apply, pre-plant or pre-emergence, 5 to 6 quarts (4 to 5 quarts for tomatoes) PREFAR 4-E per broadcast acre. Follow directions for APPLICATION AND SOIL INCORPORATION given on this label. Use pre-emergence only on crops to be irrigated up.

(NOTE: Limit use on bell peppers to the Southern and California/Arizona growing regions; on chili peppers to the Southwestern

- . LETTUCE: (head or leaf)

Apply, pre-plant or pre-emergence, 5 to 6 quarts PREFAR 4-E per broadcast acre. Follow directions for APPLICATION AND SOIL INCORPORATION given on this label. Use pre-emergence only on lettuce to be irrigated up.

- . ROOT CROP VEGETABLES

(NOTE: Limit use on carrots to Texas; on bulb onions to Idaho, New Mexico, Oregon, and Texas. Use on onions in Idaho and Oregon is restricted to fall application followed by spring planting).

- . CARROTS (Texas Only):

Apply pre-plant or pre-emergence, 5 to 6 quarts PREFAR 4-E per broadcast acre. Follow directions for APPLICATION AND SOIL INCORPORATION given on this label. Use pre-emergence only on carrots to be irrigated up. Do not feed treated carrots to livestock.

• BULB ONIONS (New Mexico and Texas):

Apply pre-plant or pre-emergence, 5 to 6 quarts PREFAR 4-E per broadcast acre. Follow directions for APPLICATION AND SOIL INCORPORATION given on this label. Use pre-emergence only on onions to be irrigated up.

• BULB ONIONS (Idaho and Oregon):

For control of watergrass, redroot pigweed and common lambs-quarters, prepare a good, flat seed bed by standard cultural practices. Apply in the fall 3 quarts of PREFAR 4-E per acre in 10 to 50 gallons of water in a 10 to 12 inch band and bed-up, throwing soil from the furrows over the sprayed band of PREFAR 4-E. Allow to remain undistributed until spring. Prior to planting in spring; drag-off the bed tops with a spike-tooth harrow being careful not to drag off soil below the level of PREFAR 4-E application. Plant in the center of the beds.

• GRASS SEED CROPS: (bentgrass, bluegrass)

For Poa annua control in bentgrass and bluegrass seed fields: Apply 2 to 2-1/2 gallons PREFAR 4-E per acre to the soil surface after straw removal but before weed seed germination. If field has been burned, ashes should be completely dispersed before application of PREFAR 4-E.

Do not feed straw to livestock. Do not graze livestock in treated fields.

(NOTE: Limit use to Oregon, Washington and Idaho.)

PREFAR 4-E/ALANAP* TANK MIX DIRECTIONS

*ALANAP is a registered trademark of Uniroyal Chemical

A tank mix combination of PREFAR 4-E and ALANAP can be mixed (incorporated) into the soil before planting for weed control in cantaloupes, cucumbers, muskmelons and watermelons. This combination will control a broader spectrum of weeds than will either material used alone.

IMPORTANT - Follow all general directions for use and use precautions that appear on the ALANAP label and elsewhere on this label.

Weeds controlled by PREFAR 4-E/ALANAP combinations:

Annual Grasses

Watergrass (Barnyardgrass)
Crabgrass
Fall Panicum
Foxtails
Goosegrass
Sprangletop

Annual Broadleaf Weeds

Bindweed
Carpetweed
Chickweed
Cocklebur
Galinsoga
Groundcherry
Lambsquarters

Mustards
Pigweed
Purslane
Ragweed
Shepherdspurse
Velvetleaf

DIRECTIONS FOR USE

Soil Preparation: Prepare the soil according to good agricultural practice. All weed growth and crop stubble must be thoroughly worked into the soil.

Tank Mixing Directions: Combine PREFAR 4-E and ALANAP in the spray tank in the recommended dosage proportions using 10 to 40 gallons of water per acre of area to be treated.

Spray equipment should be carefully calibrated before use and checked frequently during application to be sure nozzles are free from clogging and are delivering a uniform spray pattern.

Pre-plant Application and Soil Incorporation: Apply 4 to 6 quarts per acre of PREFAR 4-E plus 4 to 8 quarts of ALANAP in sufficient water (10 to 40 gallons) to provide thorough coverage. Incorporate lightly (1/2 to 1 inch) into the soil using suitable equipment just prior to planting. Use lower rates on light (sandy) soils and higher rates on heavier (clay) soils. Reduce the rate proportionately for band applications. Incorporation is not necessary if the application is followed by immediate irrigation.

NOTICE TO BUYER AND USER

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the user of this product under conditions not reasonably foreseeable to Seller, and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

