FEB 20 1996

Ms. Bethany G. Hulcy Gowan P.O. Box 5569 Yuma, AZ 85366-5569

Dear Ms. Hulcy:

Use Deletions Subject:

Prefar 4E

EPA Reg. No. 10163-200

Your submission dated June 29, 1994

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable and a stamped copy is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager 25 Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

CONCURRENCES							*
SYMBOL							
SURNAME							"W.
PATE							

TOTAL 100.0%

Emulsifiable Liquid for control of Annual Grasses and Broadleaf Weeds

ACTIVE INGREDIENT: Bensulide S-(O,O-disopropyl phosphorodithicate) ester of N-(2-mercaptoethyl) benzenesulfonamide 46.0% INERT INGREDIENTS: 54.0% ACCEPTED

WIL COMPLETE

In EPA Letter Dated

Contains 4 pounds of active ingredient per gallon

FEB 20 1996 KEEP OUT OF REACH OF CHILDREN

Under the Federal Insecticide, Franciscide, and Rode: icide Act as amended, for the posticide

CAUTION

STATEMENT OF PRACTICAL TREATMENT Organophosphate Pesticide

registered under EPA Reg. No. FIRST AID: If a known exposure occurs or is suspected, immediately start the procedures given below and simultaneously contact a Poison Center, a physician, or the neares:

hospital. 70 /65 -255

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 <u>do not</u> induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of 'ient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

KIN CONTACT, flush all affected areas with plenty of water for several minutes. Remove and clean contaminated clothing and shoes. Seek ruedical attention if irritation 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 lide

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 24-HOUR EMERGENCY ASSISTANCE, CALL CHEMTREC (500) 424-9300.

For other product Information, contact Gowan Company or see Material Safety Data Sheet.

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category & on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Viton ≥14mils
- Shoes plus socks
- r manufacturer's instructions for cleaning/maintaining PPE, if no such instructions for washables, use detergent and hot water. Keep and wash PPE segarately from . laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS This product is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water. mark. 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.

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.

> ____GALLONS **NET CONTENTS**





EPA Reg. No. 10163-200 EPA Est. No. 10182-AR-1, 34704-MS-1

WEEDS CONTROLLED

Annual Grances Crabgrass Fall Panicum oxtail

(Digitaria app.) (Panicum dicho

(Panicum monoto (Seteria app.) (Eleusine indica) Goosegrass Jungia Rice

(Echinochica colo (Laptochica app.) Sprangietop Watergrass Annual Broo

(AZ, NM, TX and ten southern-most CA countles only) (Chenopodium album) (Portrilaca oleracea) ambequarters Purslana Redroot Pigweed

DIRECTIONS FOR USE

violation of Federal law to use this product in a manner inconsistent with its labeling. apply this product in a way that will contact workers or other persons, either directly or through a hypotected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and hendlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance, it also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception: If the product is soil-injected or soil-incorporated the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated, such as plants, soil, or water is:

or water is:

- Coveralle
- Chemical-resistant gloves, such as Berrier Laminate or Viton > 14mile
- Shoes plus socks

CHEMIGATION STATEMENT

Refer to supplemental labeling emitted CHEMIGATION USE INSTRUCTIONS for use directions for chemigation. Do not apply this product through any type of irrigation system unless the supplemental labeling on chemigation is followed.

RECOMMENDATIONS

PREFAR 4-E is a selective herbicide which is applied pre-plent and mixed (incorporated) into the soil.

1 tain crops which are irrigated up, PREFAR 4-E may be applied to the soil surface after plenting.

1 AR 4-E controls weeds as their seeds germinate by interfering with normal germination and

I AR 4-E controls weeds as their seeds germinate by interfering with normal germination and sewuling 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 obscited 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 scre.

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 (aprinkler 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).

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

CUCURBITS: (crowmbers, summer equesh, wint at equash, cantaloupes, crenchew motions, muslameters, Persian meterns, pumptins, weterractens) Apply pre-plant, 5 to 6 quarts PREFAR 4-E per broadcast acre to flat-planted or bedded orers. Follow directions for APPLICATION AND SOIL INCORPORATION given on this tabel.

COLE CROPS: (broaccet, Seuscele apreute, asbbage, asutificater) Apply pre-plant or pre-emergence, 5 to 6 quarts PREFAR 4-E per broadcast zone. Follow directions for APPLICATION AND SOIL INCORPORATION given on this label. Use pre-emergence only on cole crops to be trigated up. (NOTE: Limit use on cabbage to Southern and California/Arizona growing regions.)

PEPPERS IN

ed bell poppers PREFAF ehili pappers) Apply pre-plant or pre-emergence, 5 to 6 quarts
4-E per broadcast sore. Follow directions for APPLICATION AND SOIL INCORPORATION given or
this label. Use pre-emergence only on crops to be irrigated up.
(NOTE: Limit use on bell pappers to the Southern and California/Arizona growing regions; on chil
pappers to the Southwestern U.S.)
LETTUCE: (head or teef/Apply pre-plant or pre-emergence, 5 to 6 quarts PREFAR 4-E per broadcas
acre. Follow directions for APPLICATION AND SOIL INCORPORATION given on this label. Use preemergence only on lettuce to be irrigated up.

ROOT CROP VEGETABLES

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 plenting.)

CARROTS (Texas Only): Apply pre-plent or pre-emergence, 5 to 6 quarts PREFAR 4-E pe broadcast sore. Follow directions for APPLICATION AND SOIL INCORPORATION given on this tabel Use pre-emergence only on carrots to be irrigated up. Do not feed treated cerrots to livestook.

SULS ONIONS (New Mexico and Texas): Apply pre-plant or pre-emergence, 5 to 6 quarts PREFAF
4-E per broadcast sore. Follow directions for APPLICATION AND SOIL INCORPORATION given or this label. It has new commence and on enterested to intrinsted up. SULE ONIONS (New Mexico and Texas): Apply pre-plant or pre-emergence, 5 to 5 quarts PREPAF-4-E per broadcast sere. Follow directions for APPLICATION AND SOIL INCORPORATION given or this label, tipe pre-emergence only on enions to be irrigated up.

BULE ONIONS (idehe and Oragen): For control of watergrass, redroot pigweed and common lambaqueriers, prepare a good, flat seed bad by standard outsural practices. Apply in the latt 3 reserved PREPAR 4-E per acre in 10 to 50 gallons of water in a 10 to 12 inch band and bed-up, throw, ageofrom the furrows over the aprayed band of PREPAR 4-E. Allow to remain undistributed until spring Prior to planting in spring, drag-off the bad tops with a spike-tooth harrow being careful not to drag off soil below the level of PREPAR 4-E application. Plant in the center of the bads.

PREFAR 4-E/AL ANAP*

TANK MIX DIRECTIONS

TANK MIX DIRECTIONS

*ALANAP is a registered trademark of Univoyal 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, muslumelone and watermelone. This combination will control a broader spectrum of weeds than will either material used alone.

**SPPORTAIT—Follow all general directions for use and use precautions that appear on the ALANAS table and elsewhere on this label.

**Weeds controlled by PREFAR 4-E/ALANAP combinations:

**Annual Grasses: Watergrass (Barmyardgrass), Crabgrass, Fall Panicum, Foxtalis, Goosegrass Communication.

sprangurup.
Annual Breadleaf Weeds:Bindweed, Carpetweed, Chickweed, Cocklebut, Galineoga, Groundcherry.
Lambequarters, Mustards, Pigweed, Pursiane, Ragweed, Shepherdspurse, Vetveticat.

DIRECTIONS FOR USE

DIRECTIONS FOR USE

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

Tank Mixing Directions: Combine PREFAR 4-E and ALANAP in the apray tank in the recommende dosage proportions using 10 to 40 gallons of water per acre of area to be treated. Sprey equipment should be carefully calibrated before use and checked frequently during application to be sure nozzine 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 to 6 quarts of ALANAP in sufficient water (10 to 40 gallons) to provide thorough coverage, incorporating lightly (1/2 to 1 inch) into the soil using suitable equipment just prior to planting. Use lower rates o light (sandy) soils and higher rates on heavier (clay) soils. Reduce the rate proportionately for ban applications. Incorporation is not necessary if the application is followed by immediate impation.

STORAGE AND DISPOSAL

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 (40-80 days): 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 affolioved by State and local authorities.

SPILL OR LEAK: Small soils can be handled routinely. Use adec units ventilation and wear an

- and local authorities.

 BPILL OR LEAK: Small spills can be handled routinely. Use adequate ventilation and wear an air-supplied respirator to prevent inhalation. Wear suitable protective clothing a paxeut sidn 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 observical waste container.

 3. Generously cover the contaminated areas with a common household detergent. Using a still brush and small amounts of water, work the detergent into the spill instancial forming a sturry. Do not aplatter on one's self or bystanders and completely avoid skin or eye contact with this material. Brush the sturry into cracks and cravices and allow to stand for 2.3 minutes. 2-3 minute
- Spread absorbents on the sturried liquid and shovel the absorbed maturial into the container

sortainer.

5. Repeat if necessary.

6. Flush the area with water white observing proper environmental considerations.

7. Seal container and dispose of in approved pesticide landfill.

Large splits should be handled according to a predetermine J. J.L.r..

For assistance in developing a plan, contact Gowan Company, P.O. Box 5569, Yuma, AZ

Prefar[®] is a registered trademark of ZENECA Inc.

NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliebte. The u of this product being beyond the control of the manufacturer, no guarantee, expressed or implied mede as to the effects of such or the results to be obtained if not used in accordance with directic or established safe practice. The buyer must assume all responsibility including injury or dams; resulting from its misuse as such, or in combination with other materials.

This product is sold only for uses stated on its tablet. No expressed or implied license is granted to user self this product under any patent in any country except as specified: Country: United States

CHEMIGATION USE INSTRUCTIONS

Apply this product only through sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move; or drip (trickle), including surface and subsurface drip irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers, or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut of the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are

compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Application of Prefar 4-E should be made after germination of the crop seed and after the tap root system is established. Adjust equipment to inject Prefar 4-E over a 60-90 minute time period near the end of the irrigation period. Injection equipment should be located as close to the pump as possible to ensure adequate mixing. Shut off injection equipment at the end of the application and continue to irrigate for 1-3 hours to ensure proper incorporation of Prefar 4-E into the soil

SPRINKLER AND DRIP (TRICKLE) CHEMIGATION

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intuke side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where posticide distribution is adversely affected.

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