

10163-200

12/13/2012

1/7



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Shauna Weaver
Gowan Company
P O Box 5569
Yuma, AZ 85366

DEC 13 2012

Subject Label Amendment – Remove Mexican Parsley and Chinese Parsley
 Prefar 4-E Herbicide
 EPA Reg No 10163-200
 Application Dated December 10, 2012

Dear Ms Weaver

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable

Amended labeling will supercede all previously accepted ones A stamped copy of labeling is enclosed for your records

Submit one (1) copy of final printed labeling before you release the product for shipment
If you have any questions regarding this action, please contact Maggie Rudick at (307) 347-0257
or rudick.maggie@epa.gov

Sincerely,

A handwritten signature in black ink, appearing to read "Kable Bo Davis", written over a horizontal line.

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)

2/7

Prefar[®] 4-E

Selective Herbicide

Emulsifiable liquid for control of annual grasses and broadleaf weeds

ACCEPTED

DEC 13 2012

Under the Federal Insecticide Fungicide and Rodenticide Act is amended for the pesticide registered under EPA Reg No 10163-200

ACTIVE INGREDIENT Bensulide
S (O O diisopropyl phosphorodithioate) ester of N (2 mercaptoethyl) benzenesulfonamide
OTHER INGREDIENTS

% By Wt
46 0%
54 0%
TOTAL 100 0%

Contains 4 pounds of active ingredient per gallon
Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
Organophosphate Pesticide	
If swallowed	<ul style="list-style-type: none"> Immediately call a poison control center or doctor Do not induce vomiting unless told to do so by the poison control center or doctor Do not give ANY liquid to the person Do not give anything by mouth to an unconscious person
If inhaled	<ul style="list-style-type: none"> Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably by mouth to mouth if possible Call a poison control center or doctor for further treatment advice
If on skin or clothing	<ul style="list-style-type: none"> Take off contaminated clothing Rinse skin immediately with plenty of water for 15 20 minutes Call a poison control center or doctor for treatment advice
If in eyes	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 20 minutes Remove contact lenses if present after the first 5 minutes then continue rinsing Call a poison control center or doctor for treatment advice
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact 1 888-478 0798 for emergency medical treatment information	
NOTE TO PHYSICIAN	
This product is an organophosphate herbicide If symptoms of cholinesterase inhibition are present atropine by injection is antidotal 2 PAM is also antidotal and may be administered but only in conjunction with atropine Contains petroleum distillates - vomiting may cause aspiration pneumonia	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed inhaled or absorbed through the skin Avoid contact with eyes skin or clothing Causes moderate eye irritation

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 G on an EPA chemical resistance category selection chart

Mixers loaders applicators and other handlers must wear

- Long sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate or Viton > 14 mil
- Shoes plus socks
- In addition a NIOSH approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC 21C or a NIOSH approved respirator with any N R P or HE filter must be worn by 1) mixers loaders 2) persons participating in chemigation and 3) commercial or for hire applicators (due to risk from repeated exposures)

Follow manufacturer s instructions for cleaning/maintaining PPE If no such instructions for washables use detergent and hot water Keep and wash PPE separately from other laundry

NET CONTENTS _____ GALLONS

EPA Reg No 10163 200
EPA Est No



Produced For
Gowan Company
P O Box 5569
Yuma AZ 85366 5569

ENGINEERING CONTROL

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40CFR 170.240(d)(4-6)) the handler PPE requirements may be reduced or modified as specified in the WPS

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating drinking chewing gum using tobacco or using the toilet
- Remove clothing/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing
- Remove PPE immediately after handling this product Wash the outside of gloves before removing As soon as possible wash thoroughly and change into clean clothing

ENVIRONMENTAL HAZARDS

This chemical is toxic to fish and aquatic invertebrates 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 apply when weather conditions favor drift from the treated area

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area

Do not apply directly to water or to area where water is present or to intertidal areas below the mean high water mark Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate

This product may impair reproduction in birds if used during the breeding season

PHYSICAL OR CHEMICAL HAZARDS

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

DIRECTIONS FOR USE

USE RESTRICTIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling Do not apply this product in a way that will contact workers or other persons either directly or through drift Only protected handlers may be in the area during application For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation

- READ ALL DIRECTIONS BEFORE USING
- MIX PREFAR 4 E WELL BEFORE DILUTING WITH WATER
- Prefar 4 E must be used only for purposes listed on the label Do not exceed the rates specified on the label (DO NOT OVERDOSE)
- USE ON MINERAL SOILS ONLY
- Application of Prefar 4 E to soil that is cold and/or wet for an extended period of time due to rains or poorly drained soil during the germination period may result in reduction of crop stand or yields
- Combining Prefar 4 E with fertilizers or other agricultural chemicals could result in incompatibility reduced efficacy or reduced crop safety It is recommended that the user test the response of combination treatments with other products on a small scale prior to commercial scale use
- Vary the rate of Prefar 4 E you apply depending on the soil texture Apply the higher specified label rates to heavier fine textured soils Apply lower rates to lighter coarse textured soils with lower organic matter
- This product may not be applied by aircraft
- Do not allow this product to drift

WEEDS CONTROLLED

ANNUAL GRASSES

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

ANNUAL BROADLEAF WEEDS

(AZ NM TX and CA only)

- Lambsquarters (*Chenopodium album*)
- Purslane (*Portulaca oleracea*)
- Redroot Pigweed (*Amaranthus retroflexus*)
- (AZ and CA only)
- Burning Nettle (*Urtica urens*)
- Nettleleaf Goosefoot (*Chenopodium murale*)

AGRICULTURAL USE REQUIREMENTS

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 handlers 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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water is

- Coveralls
- Chemical resistant gloves such as barrier laminate or viton > 14 mil
- Shoes plus socks

PRODUCT INFORMATION

Prefar 4 E is a selective preemergent herbicide that controls weeds by interfering with their normal germination and seedling development Tests deemed reliable demonstrate that when Prefar is applied to labeled crops according to label directions under normal growing conditions it is safe to the crop Normal crop conditions include soil with good water drainage acceptable soil fertility and soil temperatures conducive to timely seed germination and plant emergence Any deviation from normal growing conditions resulting from adverse environmental conditions or changes in production practices may alter a crop s response to Prefar

The user should strictly comply with the soil preparation and application instructions on this label Questions concerning the use of the product should be directed to Gowen Company or local extension agents or university specialists

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

APPLICATION INSTRUCTIONS 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 directed rate of Prefar 4 E in 10 to 50 gallons of water per acre See comments for specific crop use directions

PREPLANT INCORPORATION Apply to well worked soil that is dry enough to permit thorough incorporation Incorporate to a depth of 1 2 inches before planting One inch incorporation is optimum while incorporating deeper than 2 inches will result in reduced weed control or crop injury

PREEMERGENCE APPLICATION Apply Prefar 4 E preemergence only on crops where the application is followed by immediate irrigation Delaying irrigation more than 36 hours may result in poor weed control For sprinkler irrigation wet the soil at least 2 to 4 inches deep For furrow irrigation thoroughly wet the entire bed top (completely black out bed top)

ROTATIONAL CROP INSTRUCTIONS Carrots and other crops on this label (or crops from labeled crop groupings) may be replanted following applications of Prefar 4 E without restriction All other crops should not be planted for 120 days and the soil must be tilled to a minimum depth of 4 inches prior to replanting

Prefar 4 E may be used on labeled crops grown through or under plastic

CHEMIGATION USE INSTRUCTIONS

CHEMIGATION PROHIBITION – This product may only be applied by chemigation in Arizona and California

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 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

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

For 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 Before beginning chemigation always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank

In addition all directions and requirements specified for Sprinkler and Drip (trickle) Chemigation must be followed

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 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 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 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

For best results application should be made at the beginning of the irrigation cycle injecting over a 60 to 90 minute period after all lines and sprinklers have been cleared and are operating with correct pressure Shut off injection equipment at the end of the application and continue to irrigate until soil is wetted to a depth of 2 to 4 inches

CROP USE DIRECTIONS

All Prefar 4 E rates are given on a broadcast rate per acre basis For banded applications reduce proportionately the amount of Prefar 4 E applied according to the area to be treated Do not make applications to any crop not on this label unless the supplemental labeling for Prefar 4 E supplied by Gowan Company is followed

CROP	BROADCAST RATE Quarts/Acre	COMMENTS
CUCURBIT VEGETABLE GROUP including but not limited to Chayote Chinese Waxgourd (Chinese Preserving Melon) Citron Melon Cucumbers Gherkin Edible Gourd (Hechima Chinese Okra) Muskmelons (including Muskmelon True Cantaloupe Cantaloupe Casaba Crenshaw Melon Golden Pershaw Melon Honeydew Melon Honey Balls Mango Melon Persian Melon Pineapple Melon Santa Claus Melon Snake Melon) Pumpkins Summer Squash (Crookneck Squash Straightneck Squash Zucchini Scallop Squash Vegetable Marrow Spaghetti Squash Hyotan Cucuzza Balsam Apple Balsam Pear Bitter Melon Chinese Cucumber) Winter Squash (Including Butternut Squash Calabaza Hubbard Squash Acorn Squash) Watermelons	5 6	Apply preplant or preemergence to flat planted or bedded crops Follow application instructions given on this label
BRASSICA (COLE) LEAFY VEGETABLE GROUP including but not limited to Broccoli Broccolini Broccoflower Chinese Broccoli Broccoli Raab (Rapini) Brussels Sprouts Cabbage Chinese Cabbage (Bok Choy Napa) Chinese Mustard Cabbage (Gai Choy) Cauliflower Cavalo Broccolo Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens	5 6	Do not apply more than 6 lbs a.i. per acre per season Apply preplant or preemergence Follow application instructions given on this label
FRUITING VEGETABLES Eggplant Ground Cherry Pepinos Peppers (Bell Peppers Chili Peppers Cooking Peppers Pimentos Sweet Peppers) Tomatillo	5 6	Apply preplant or preemergence Follow application instructions given on this label
LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLE) GROUP including but not limited to Arugula (Roquette) Cardoon Celery Chinese Celery Celtuce Chervil Chrysanthemum (Edible Leafed Garland) Corn Salad Cress (Garden Upland) Dandelion Dock (Sorrel) Endive (Escarole) Florence Fennel (Sweet Anise Sweet Fennel Finochio) Lettuce (Head Or Leaf) Orach Parsley Radicchio (Red Chicory)	5 6	Do not apply more than 6 lbs a.i. per acre per season Apply preplant or preemergence Follow application instructions given on this label Do not use Prefar 4 E on spinach or Swiss Chard as severe phytotoxicity will occur
CARROTS (Texas Only)	5	Do not apply more than 5 lbs a.i. per acre per season Apply preplant or preemergence Follow application instructions given on this label Do not feed treated carrots to livestock
DRY BULB VEGETABLES Garlic Bulb Onions Shallots	5 6	Do not apply more than 6 lbs a.i. per acre per season Apply preplant or preemergence Follow application instructions given on this label Onions germinate and grow best when planted in fine textured soil with good water drainage where the soil salinity value is less than 4 ECe and soil temperature is between 55° and 75° Use of Prefar on onions under less favorable soil and environmental conditions may reduce stand and vigor resulting in lower yield To avoid injury do not incorporate by mechanical methods in California or Arizona Consult your local extension agent or university specialist for further information (ECe is the electrical conductivity extract)

CROP	BROADCAST RATE Quarts/Acre	COMMENTS
DRY BULB VEGETABLES Garlic Bulb Onions Shallots (Idaho and Oregon only)	5 6	Do not apply more than 6 lbs a.i. per acre per season For control of redroot pigweed and common lambsquarters prepare a good flat seed bed by standard cultural practices Apply Prefar 4 E in the fall in 10 50 gals of water in a 10 12 inch band and bed up throwing soil from the furrows over the sprayed band of Prefar 4 E Allow to remain undisturbed until spring Prior to planting in spring drag off the bed tops being careful not to drag off soil below the level of Prefar 4 E application Plant in the center of the beds

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE Protect from temperatures below 42 F At temperatures below 42 F product may crystallize Dissolve crystals with quiet storage at warm temperatures (75 F) Redissolution rate 40 48 F (40 60 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 must be disposed of on site or at an approved waste disposal facility

CONTAINER DISPOSAL For Non Bulk Plastic Containers Nonrefillable container Do not reuse or refill this container Offer for recycling if available Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container 1/4 full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times After cleaning if recycling is not available puncture and dispose of in a sanitary landfill or by incineration or if allowed by State and local authorities by burning If burned stay out of smoke

CONTAINER DISPOSAL

For Nonrefillable Bulk Plastic Containers Nonrefillable container Do not reuse or refill this container Offer for recycling if available Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later disposal Repeat this procedure two more times

For Refillable Bulk Containers Refillable container Refill this container with pesticide only Do not reuse this contain for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller To clean the container before final disposal empty the remaining contents from this container into application equipment or mix tank Fill the container about 10 percent full with water Agitate vigorously or recirculate water with the pump for 2 minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times

Container Precautions Before refilling inspect thoroughly for damage such as cracks punctures bulges dents abrasions and damaged or worn threads on closure devices

REFILL ONLY WITH PREFAR 4 E The contents of this container cannot be completely removed by cleaning Refilling with materials other than Prefar 4 E will result in contamination and may weaken container

After refilling and before transporting check for leaks Do not refill or transport damaged or leaking container

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 yourself 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 slurred 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 Gowan Company

FOR 24 HOUR EMERGENCY ASSISTANCE (SPILL LEAK OR FIRE) CALL CHEMTREC®(800) 424 9300

For other product information contact Gowan Company or see Material Safety Data Sheet

NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

Important Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product If terms are not acceptable return the unopened container for a full refund

Our directions for use of this product are based on tests believed to be reliable However it is impossible to eliminate all risk associated with the use of this product Crop injury inadequate performance or other unintended consequences may result due to soil or weather conditions off target movement presence of other materials method of use or application and other factors all of which are beyond the control of Gowan Company To the extent consistent with applicable law all such risks shall be assumed by the Buyer and User

Gowan Company warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use subject to the above stated risk limitations TO THE EXTENT CONSISTENT WITH APPLICABLE LAW GOWAN COMPANY MAKES

7/7

NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW GOWAN COMPANY S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT WARRANTY TORT NEGLIGENCE OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT AT GOWAN COMPANY S SOLE DISCRETION

Prefar® 4 E is a registered trademark of Gowan Company L L C

EPA Text Prefar 4 E (EPA approved 12 06 12)