PM 25 62719-104

TERESA Poge 1716

ويد وليما



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460 DEC 2 1993

> OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Douglas M. Roby DOWELANCO QUAD IV 9002 PURDUE RD Indianapolis, IN. 46268

Subject: Label Amendment Submission of 08/30/93 in Response to PR Notice 93-7 EPA Reg. No. 62719-104 PAARLAN E.C.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

 BEFORE selling or distributing any product bearing the final printed labeling AND

WITHIN one year from date of this acceptance.





Recycled/Recyclebie Printed with Soy/Canela Ink on paper that contains at least \$5% recycled fiber Page 2

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL) Office of Pesticide Programs (7505C) U.S. Environmental Protection Agency 401 M Street, SW Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL) Office of Pesticide Programs Room 266A, Crystal Mall 2 1921 Jefferson Davis Highway Arlington, VA 22202

Tim Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W) -

Sincerely,

716

· • • • • • •

2

-

4

Attachment

DOWELANCO PAARLAN E.C. EPA Reg. No. 62719-104 08/30/93

-

Original Submission

The apron requirement for "applicators and other handlers" in the Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add: "Chemical-resistant apron when cleaning equipment, mixing or loading." EXCEPTION: If you have an entirely separate PPE section specifying what "Mixers and loaders must wear," the apron requirement under the header "Applicators and other handlers must wear" is: "Chemical-resistant apron when cleaning equipment". The exact location is shown in Sections A and B on Part I of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

You must add an Agricultural Use Requirements box to your main label that refers to the Agricultural Use Requirements box in your proposed supplemental labeling. Use the exact text and placement as shown on page 43 in Supplement Three to PP Notice 93-7.

BEST AVAILABLE COPY

12 1

w._.

8/26/93 [TAG]

7 16 Page 1

Labeling revised to comply with the Worker Protection Standard (Editor's Note: Deleted text indicated by strike-through and added text underlined) Text based on EPA-accepted copy dated: 03/06/91

[1gal Sleeve - Paarlan E.C.] [Front Panel of Sleeve]

(logo) DowElanco

Paarlan^{*} E. C.

A selective herbicide for the preemergence control of annual grasses and broadleaf weeds in tobacco

Active Ingredient: isopropalin: 2,6-dinitro-N,N-dipropylcumidine . 68.6% Inert Ingredients . 31.4% Contains 1 1/2 pounds of active ingredient per quart.

Keep Out of Reach of Children

WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Refer to back panel of container for precautionary information, including Personal Protective Equipment (PPE), and Directions for Use including STORAGE AND DISPOSAL.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of an emergency endangering life or property involving this product, call coffect 517-636-4400.

EPA Reg. No. 62719-104 20156

WS 1610 AMX

EPA Est. 1471-IN-2 900-000598 -----

'ISO

Trademark of DowElanco DowElanco • Indianapolis, IN 46268, U.S.A.

Herbicide

Net Contents 1 gal



ACCEPTED vith CONDENTS In EPA Letter Dated

DEC 2 1993

Under the Federal Insecticide, Fundicide, and Redenticide Act as amended, for the pasticide registered under EPA Rog. No.

. We -

1:21 PM

8/26/93 [TAG]

Page 2

of 16

[Back Panel of Sleeve]

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children WARNING

AVISO

14 1

Si usted no entiende la etiqueta, busque a alquien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Precaucion al usuario: Si usted no los inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Causes Substantial But Temporary Eye Injury - Causes Skin Initiation - Hamful If Swallowed, Inhaled Or Absorbed Through The Skin

Do not get in eyes, on skin or on clothing. Avoid breathing vapor or spray mist. Wear eye-protection and protective-clothing-such as coveralis, a long-sleeved shirt, shoes, and impermeable gloves when handling this product. Wash thoroughly with scap and the source water after handling. Remove contaminated clothing and wash before reuse.

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 F on an EPA chemical resistance category selections chart.

Applicators and other handlers must wear:

Coveralls over short-sleeved shirt and short pants

- · Chemical-resistant cloves such as Barrier Laminate, Butvl Rubber, Nitrile Rubber or Viton
- <u>Chemical-resistant footwear plus socks</u>
- Protective evewear
- Chemical-resistant headgear for overhead exposure

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keen and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

Wash hands, face and arms with soap and water as soon as possible after mixing, loading or applying this
product and before eating, sn _king or drinking. Wash hands and arms before using the toilet.
 Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If in eyes: Hold eyelids open and flush with a gentle steady stream of water for 15 minutes. Call a physician.

If on akin: Wash with plenty of soap and water. Get medical attention if irritation develops. If availowed: Do not induce vomiting. Call a physician or Poison Control Center. If available, administer activated charcoal (6-8 heaping teaspoonfuls) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician. If Inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, give artificial respiration, preferably mouth-to-mouth, and get medical attention immediately.



07 16 6 Page 3

. log .

£

je.

/a /

BEST AVAILABLE COPY

Environmental Hazards

Ę,

~

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply when conditions favor runoff or drift from the target area. Do not contaminate water when disposing of equipment washwaters.

~..

Directions for Use

It is a violation of Federal law to use this poduct in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

4.

STORAGE AND DISPOSAL

: ~

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

Storage: Store in original container only. In case of leak or spill, use absorbent material to contain liquids and dispose as waste.

Pesticide Disposal: Wastes resulting from 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 incineration, or, if allowed by state and local authorities. by burning. If burned, stay out of smoke.

Refer to attached label booklet for additional precautionary information and Directions for Use.

- -



14 1

[Literature Booklet -- Paarlan E.C.] [Front Cover of Booklet]

(logo) DowElanco

Paarlan* E. C.

A selective herbicide for the preemergence control of annual grasses and broadleaf weeds in tobacco

Active Ingredient: isopropalin: 2,6-dinitro-N,N-dipropylcumidine . 68.6% Inert Ingredients . 31.4% Contains 1 1/2 pounds of active ingredient per quart.

EPA Reg. No. 62719-104 20156

PI 3890 AMP

- -

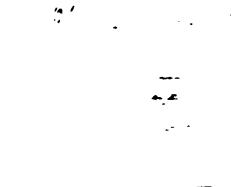
900-000597

. U. ...

*Trademark of DowElanco DowElanco • Indianapolls, IN 46268, U.S.A.

Herbicide

1 x-



BEST AVAILABLE COPY

5

(Page 2 of Booklet)

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

WARNING AVISO:

Si usted no entiende la etiqueta, busque a alquien para que se la explique a usted en detaile, (If you do not understand the label, find someone to explain it to you in detail.)

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Causes Substantial But Temporary Eye Injury • Causes Skin Irritation • Harmful If Swallowed, Inhaled Or Absorbed Through The Skin

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 F on an EPA chemical resistance category selections chart,

Applicators and other handlers must wear:

Coveralls over short-sleeved shirt and short pants

Chemical-resistant cloves such as Barrier Laminate, Butvl Rubber, Nitrile Rubber or Viton

Chemical-resistant footwear plus socks

Protective eyewear

Chemical-resistant headgear for overhead exposure

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

User Safety Recommendations

Users should:

Wash hands, face and arms with soap and water as soon as possible after mixing, loading or applying this
product and before eating, smoking or drinking. Wash hands and arms before using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If in eyes: Hold eyelids open and flush with a gentle steady stream of water for 15 minutes. Call a physician.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops. If swallowed: Do not induce vomiting. Call a physician or Poison Control Center. If available, administer activated charcoal (6-8 heaping teaspoonfuls) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician. If Inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, give artificial respiration, preferably mouth-to-mouth, and get medical attention immediately.



-

W

. .

_- -

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply when conditions favor runoff or drift from the target area. Do not contaminate water when disposing of equipment washwaters.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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.

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.

<u>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:</u>

Coveralls over short-sleeved shirt and short pants

Chemical-resistant cloves such as Barrier Laminate. Butyl Bubber. Nitrile Rubber or Viton

Chemical-resistant footwear plus socks

Protective evewear

Chemical-resistant headgear for overhead exposure

STORAGE AND DISPOSAL

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

Storage: Store in original container only. In case of leak or spill, use absorbent material to contain liquids and dispose as waste.

Pesticide Disposal: Wastes resulting from 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 incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



General Information

Paarlan E.C. herbicide is a preemergence herbicide for the control of annual grasses and broadleaf weeds. Paarlan E.C. may be applied in liquid sprays of water or liquid fertilizer, or impregnated on dry bulk fertilizer. Incorporation of Paarlan E.C. is required to assure effective weed control. Paarlan E.C. controls weeds by disrupting growth processes during germination. Paarlan E.C. does not control established weeds.

General Use Precautions

When applied according to use directions and under normal growing conditions, Paarlan E.C. will not harm the treated crop. Over application, uneven application or improper soil incorporation can result in erratic weed control, crop injury, delayed emergence or soil residue. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings or transplants and increase the possibility of damage from Paarlan E.C. Under these conditions, delayed crop development or reduced yields may result.

Do not use Paarlan E.C. for weed control in tobacco seedbeds.

Paarlan E.C. should not be applied to soils that are wet or subject to prolonged periods of flooding as poor weed control may result.

Chemigation: Do not apply Paarlan E.C. through any type of chemigation system.

Soil Texture Guide for Application Rates

Paarlan E.C. application rates are based on soil texture. A fine textured clay soil will require a higher application rate than a coarse textured sandy soil. Paarlan E.C. application rates are determined by "soil texture groupings" (coarse, medium or fine) which corresponds to the various field soil textures to be treated. Using the table below, determine if the field soil to be treated is coarse, medium or fine and use the application rate recommended for that soil texture grouping.

Soli Texture Class	Soli Classification
Coarse (Light) Soils	Sand, loarny sand, sandy loarn
Medium Soils	Loam, silty clay loam [†] , silt loam, silt, sandy clay loam [†]
Fine (Heavy) Soils	Clay, clay loam, silty clay loam [†] , silty clay, sandy clay, sandy clay loam [†]

†Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If silty clay loam or sandy clay loam soils are predominantly sand or silt, they are usually classified as medium textured soils. If they are predominantly clay, they are usually classified as fine textured soils.

Soil Preparation

Destroy existing weeds before application of Paarlan E.C. Chop and thoroughly mix surface residues into the soil to a depth of 4 to 6 inches by plowing or discing. Use tillage equipment to break up large clods before application.

Mixing Directions



12 1

Paarlan E.C. - Alone

Paarlan E.C. may be applied in water and liquid fertilizer materials. Prior to mixing Paarlan E.C. in liquid fertilizer, refer to the label section entitled "Testing for Tank Mix Compatibility in Liquid Fertilizers" for test procedures to determine compatibility with the fertilizer product to be used. The combination of Paarlan E.C. with solution and suspension-type fertilizers provides annual weed control equal to Paarlan E.C. applied in water. Individual state regulations relating to liquid fertilizer mixing, registration, labeling and

به يما ا

16

application are the responsibility of the individual and/or company offering the fertilizer and chemical mixture for sale.

Start with a clean spray tank. Fill the sprayer to 1/3 to 1/2 of the required spray volume. Start agitation. Add the correct amount of Paarlan E.C., continue agitation and fill spray tank to required spray volume. Maintain continuous agitation from mixing through application.

Precaution: Do not allow the mixture to back siphon into the water source.

Tank Mix Combinations

Paarlan E.C. may be tank mixed with other products and applied with water or liquid fertilizer materials. Prior to mixing Paarlan E.C. and another product in liquid fertilizer, refer to the tank mix product manufacturer's label to determine if application in liquid fertilizer is recommended. Also refer to the section in this label entitled "Testing for Compatibility in Liquid Fertilizers" for testing procedures to determine tank mix compatibility with the liquid fertilizer product to be used. Read and follow all label instructions for each material to be added to the spray tank.

Vigorous continuous agitation is required for all tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks. To prevent foaming, keep the end of the fill pipe below the surface of the water in the spray tank during filling to prevent air from being stirred or splashed into the mixture.

Mixing Order: Fill the spray tank to 3/4 of the total spray volume required. Start agitation. Add different we are formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products.

Add different formulation types in the following order: dry flowables (DF); wettable powders (WP); aqueous suspensions (AS) flowables (F) and liquids (L); solutions (S); and finally Paarlan E.C. or other emulsifiable concentrates (EC).

Finish filling spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. So, led materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled materials may be more difficult to resuspend than when originally mixed.

Premixing: When tank mixing, initial mixing and dispersion of certain dry flowable or wettable powder products may be improved by premixing with water (slurrying). Where recommended, follow product label instructions for each material. Adding the slurried material to the spray tank through a 20 to 35 mesh wetting screen will help assure good initial dispersion. Usine screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

**** £**

Testing for Compatibility in Liquid Fertilizers

Paarlan E.C. alone or in combination with other products may not combine property with some liquid fertilizer materials. Small quantities of such mixtures should always be tested before full-scale mixing. Use the procedure provided below to determine if a compatibility agent is needed or which available agent performs best with the mixture being applied. Seven compatibility agents listed at the end of this section have been thoroughly tested. Other surfactant materials available may not be formulated for use with liquid fertilizers.

Testing Procedure

1. Add 1 pint of liquid fertilizer to a 1 quart glass jar.

2. Add 1 to 4 teaspoonfuls (depending on application rate) of the products to be tank mixed in the liquid fertilizer. Add materials in the order recommended in the "Mixing Instructions" section of this label. Mix until evenly dispersed after addition of each formulation. If dry flowable or wettable powder formulations do nct disperse well, it may be necessary to slurry the materials in a small amount of water before addition to the liquid fertilizer.



 $U \leq$

Page 10

64 4.

3. Observe the jar for about 10 minutes. If materials rise to the surface and form a thick layer (oil curds) which will not discover a societ when existence a compatibility agent is possible.

which will not disperse again when agitated, a compatibility agent is needed. If the mixture is easily dispersed to its original state with slight agitation, no compatibility agent is needed, however, good agitation must be provided to maintain dispersion in the spray tank from mixing through application. 4. If the need for a compatibility agent is demonstrated in step 3, it may be tested as follows: Using a clean clear plastic or glass container, start at step 1, above. Add 1/2 teaspoonful of the compatibility agent

to the liquid fertilizer, mix well, and then repeat steps 2 and 3.

An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separation or oil rising to the surface for 1/2 hour or longer. If slight separation occurs, 2 to 3 inversions of container should provide a uniform mixture. If oily curds form which will not disperse, try adding additional compatibility agent or test the effectiveness of an alternative compatibility agent using the procedure above. A clean jar should be used for each test.

Compatibility Agents

1:21 PM

The phosphate ester-type surfactants listed below are designed for use with liquid fertilizers and can be mixed at rates as low as 1 1/2 to 2 pints per ton of liquid fertilizer. They usually do not work well as compatibility agents for tank mixes in plain water. Add the compatibility agent just before adding herbicides. Read and follow label directions for the compatibility agent.

- 1. Sponto 168D (Witco Chemicals Co., Chicago, IL)
- 2. Compat (Farm Chemicals, Inc., Aberdeen, NC) (Not for use in California)
- 3. Unite (Hopkins Ag Chemical, Madison, WI)
- 4. T-Mulz 784-2 (Thompson-Hayward Chemical Co., Kansas City, MO) (Not for use in California)
- 5. Rigo Compatibility Agent (Rigo Company, Buckner, KY)
- 6. Amoco Spray Mate (Amoco Oil Co., Chicago, IL) (Not for use in California)
- 7. Kem-Link (Universal Coop, Minneapolis, MN)

Application Methods

Application in Liquid Sprays

Apply Paarlan E.C. in a total spray volume of 20 to 40 gallons per acre (broadcast basis), using any properly calibrated low pressure herbicide sprayer that will apply the spray uniformly. As the amount of spray volume per acre decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to insure proper calibration and uniform application. Avoid boom overlaps that will increase rates above those recommended.

Application in Dry Bulk Fertilizer

Paarlan E.C. may be impregnated on most dry bulk fertilizers. Compliance with state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and or company offering the fertilizer or chemical mixture for sale. Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blender. To provide sufficient soil coverage, the required amount of Paarlan E.C. must be impregnated on a minimum of 200 pounds of dry bulk fertilizer per acre. If less than 6 pints of Paarlan E.C. are needed to impregnate a ton of fertilizer, add sufficient water to provide a minimum spray volume of 6 pints per ton.

Use the following formula to calculate the amount of Paarlan E.C. required to impregnate a ton of dry bulk fertilizer:

Application Rate x (pints of Paarlan E.C. per acre) 2000

Pounds of fertilizer

Der acre

 Pints of Paarlan E.C. required per ton of fertilizer

Incorporation Directions

Apply and incorporate Paarlan E.C. before transplanting tobacco. The first incorporation must occur within 8 hours after application. A second incorporation is required with most equipment (see incorporation equipment, below, for specific instructions). If Paarlan E.C. is applied to a wet warm soil surface or if the

BEST AVAILABLE COPT

Page 11

64. 4.

wind velocity is consistently greater than 10 mph, variable weed control may result if incorporation is delayed more than 8 hours. Operate equipment to mix Paarlan E.C. into the top 2 to 3 inches of the final seedbed. Generally, incorporation equipment will mix Paarlan E.C. approximately half as deep as equipment is operated. For example, operating equipment 4 inches deep will mix Paarlan E.C. into approximately the upper 2 inches of the seedbed.

Incorporation in Bedded Culture

For best weed control results in bedded culture, Paarlan E.C. should be uniformly incorporated to a depth of 2-3 inches in the final seedbed.

Application prior to bedding: Apply Paarlan E.C. and incorporate two times with recommended equipment. Do not expose untreated soil during bedding, planting or cultivation as loss of weed control may occur.

Application after bedding: Knock off beds to planting height before applying and incorporate Paarlan E.C. with recommended equipment that will conform to the shape of the bed. Avoid removal of treated soil from beds during planting or cultivation as loss of weed control may occur.

Incorporation Equipment

Use equipment that mixes Paarlan E.C. thoroughly into the soil. Shallow incorporation less than 2 inches deep in the final seedbed may result in erratic weed control. Use of equipment not listed below may result in poor or erratic weed control and/or crop injury. The following types of equipment are recommended:

Tandem disc: Set equipment to cut 4 to 6 inches deep and operate at 4 to 6 mpfi. Two incorporation passes in different directions are required. A single incorporation pass with a tandem or double disc does not provide adequate soil mixing.

P.T.O. driven equipment (tillers, cultivators, hoes): Set equipment to operate 4 to 6 inches deep and operate no more than 4 mph. Only one incorporation pass is necessary with this type of equipment.

Cultivation After Planting

Soil treated with Paarlan E.C. may be shallowly cultivated or rotary hoed without loss of weed control activity. Do not cultivate deeper than the Paarlan E.C. treated layer or untreated soil may be exposed resulting in loss of weed control. In bedded culture, if weeds germinate in the bottom of the furrow due to the removal of treated soil, these weeds should be controlled by cultivation.

Weeds and Grasses Controlled by Paarlan E.C.

Annual Grasses

Common Name barnyardgrass (watergrass) crabgrass (large crabgrass) (small crabgrass) (smooth crabgrass) crowfootorass foxtails (bottlegrass) (giant foxtail) (giant green foxtail) (green foxtail) (robust white foxtail) (yellow foxtail) johnsongrass (seedling only) panicum, fall panicum, Texas

<u>Scientific_Name</u> Echinochloa crus-galli Digitaria spp.

Dactyloctenium aegyptium Setaria spp.

BEST AVAMARIE COPY

110

Sorghum halepense Panicum dichotomiflorum Panicum texanum

<u>UPSC LAPELS</u>

8/26/93 [TAG]

Page 12

15

(ouffalograss) (Coloradograss) ryegrass, annual (Italian) sandbur, field

Annual Broadleaf Weeds

Common Name

carpetweed Florida pusley (Florida purslane) (Mexican clover) (pusley) lambsquarters, common pigweeds redroot pigweed (carelessweed) (rough pigweed) prostrate pigweed spiny amaranth poorjoe purslane, common Lolium multiflorum Cenchrus incertus

<u>Scientific Name</u> Mullugo verticillata Richardia scabra

Chenopodium album Amaranthus spp.

Diodia teres Portulaca oleracea ,

÷.

Approved Crops

Transplant Tobacco

Air-cured Tobacco (Burley, Maryland, Dark)

÷ ...

Paarian E.C. - Alone: Paarian E.C. may be applied and incorporated from January 1 up until the time of transplanting. Do not apply after transplanting.

Broadcast Application Rates per Acre: Apply at a rate of 2 pints per acre for all soil textures.

Paarlan E.C. In Tank Mix-with Insecticides, Nematicides or Fungicides: Paarlan C. at a rate of 2 pints per acre can be tank mixed with Diazinon, Furadan, Lorsban, Mocap, Mocao Plus and Ridomil for combined weed, insect, nematode and/or disease control (see mixing precaution below for Ridomil).

Flue-cured Tobacco

Paarlan E.C. - Alone: Paarlan E.C. may be applied and incorporated from January 1 up until the time of transplanting. Do not apply after transplanting.

TIL

11855

Broadcast Application Rates per Acre:

Soll Texture	Paarlan E.C. (pints/acre)
Coarse	2
Medium	2
Fine	2 2/3

BEST AVAILABLE COPY

115

LABELS

- £

i the second

1:21 **PM**

8/26/93 [TAG]

of 16

16

Paartan E.C. in Tank Mix with Insecticides, Nematicides or Fungicides: Paarlan E.C. at a rate of 2 pints per acre can be tank mixed with Diazinon, Dyfonate, Dy-Syston, Furadan, Lorsban*, Mocap, Mocap Plus, Vydate, Nemacur, and Ridomil[†] for combined weed, insect, nematode and/or disease control.

[†]Ridomil: Paarlan E.C. is usually compatible with Ridomil. To assure compatibility with Ridomil. To assure compatibility with Ridomil, add a small amount of each product in correct proportion to a small container of water or liquid fertilizer. Mix and let stand for five minutes. If the combination remains mixed or can be remixed easily, the mixture is compatible.

Precautions: Note: Tank mix product labels may require a time delay between application and planting, or may impose other types of limitations.

The user must comply with all applicable use directions, precautions and limitations imposed by the Paarlan E.C. or tank mix product labels. Read and understand these additional use directions, precautions and limitations before use.

Warranty Disclaimer

DowElanco 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 strict accordance with the directions, subject to the inherent risks set forth below. DOWELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FC: A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by Buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

- 1. Refund of purchase price paid by buyer or user for product bought, or
- 2. Replacement of amount of product used.

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the "Warranty Disclaimer" or this "Limitation of Remedies" in any manner.

*Trademark of DowElanco Copyright© 1991 DowElanco

BEST AVAILABLE COPY

<u> 1月7日 しきとう 月</u>