62719-8

AUG 3: 1909- 1990

Mr. Larry E. Hammond
Dow Elanco
Quad IV
9002 Purdue Road
P.O. Box 681428
Indianapolis, IN 46268-1189

Dear Mr. Hammond:

Subject: Label Revisions - Including February 7, 1990 Label
Amendment to the Registration Standard for 2,4-D
Esteron 6E Herbicide
EPA Registration No. 62719-8
Your Submission Pated July 5, 1990

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you:

1. Submit one (1) copy of the amended label before you release the product for shipment bearing the amended labeling.

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CONCURRENCES								
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2. Submit a signed Certification of Compliance statement in accordance with the February 7, 1990 labeling amendment to the Registration Standard for 2,4-D.

A stamped copy of the labeling is furnished for your records

Sincerely yours,

Joanne I. Miller Acting Product Manager (23) Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

Specimen Label

ACCEPTED with COMMENTS in EPA Letter Dated:

> 1990 ALS 3 1 1000-

Esteron* 6E

Under the Federal Insecticide. Fungicide, and Rodenticide Act. as amended, for the pesticide registered under EPA Reg. Ma.

Herbicide

CONCENTRATED - EFFECTIVE · LOW VOLITILE CONTAINS ISOOCTYL ESTERS OF 2.4-D

For the Control of Many Broadleaf Weeds, Herbaceous Perennials and Woody Plants Susceptible to 7 4-D in Grass Pastures, Certain Crops and Non-Crop Areas.

Active Ingredient(s): 2.4-Cichlorophanoxyacetic Acid, Isooctyl Esters† Inert Ingredients 2,4-Dichlorophenoxyacetic Acid Equivalent † 59.4% - 5.6 lb/gal †Isomer Specific by AOAC 6.275-6.279 (13th Ed.) E.P.A. Registration No. 464-947 E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

CAUTION PRECAUCION:

PRECAUCION AL USUARIO:

Si usted no lee ingles, no use este producto hasta que la etiqueta le hava sido explicada ampliamente

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN . MAY **CAUSE ALLERGIC SKIN REACTIONS**

Avoid Breathing Vapors or Mists . Avoid Contact with Skin. Eves. or Clothing Wash Thoroughly After Handling . Do Not Apply This Product in Such a Manner as to Directly or Through Drift Expose Workers or Other Persons • The Area Being Treated Must Be Vacated by Unprotected Persons

STATEMENT OF PRACTICAL TREATMENT: In case of contact, immediately flush eyes or skin with plenty of wastr Get medical attention if irritation persists. If swallowed, U.S. NOT induce vomiting. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person

> When Handling Concentrate Wear Suitable eve Protection and Chemical Resistant Gloves.

Environmental Hazards

kely to occur. Do not contaminate water by eleaning of equipment or disposal of wastes. On not contaminate rrigation ditches or water used for wrigation or domestic

NOTICE

Read the entire label. Use only according to label directions

IMITATIONS AND DISCLAIMER" elsewhere on this label II erms are not acceptable, return upoperted package at once o seller for full refund of parchase price paid. Otherwise, use by the buyer or arry other user constitutes acceptance of the ndor the Lumb of Warranh

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400 AGRICULTURAL CHEMICAL Do Not Ship or Store with Food, Feeds, Drugs, or Clothina

Prolonged or Frequently Repeated Skin Contact May Cause Allergic Skin Reactions in Some Individuals.

Insert A Regist. Std.

Insert B New Warranty

4412

WEED LIST

ESTERON 6E Herbicide is recommended for control of numerous broadleaf weeds and certain 2,4-D susceptible woody plants without injury to most established grasses Species controlled include the following, plus many others

bea, irticks bitterweed blueweed, Texas buckbrush buck wheat, wild burdock burhand carpetweed catnip chamies chicory cocklebu coffeeweed coyotebrush croton dandelion docks elderberry fanweed galınsoga garlic, wild goatsbeerd

halogeton

hemp, wild

imsonweed kachis loco, bigbend mattew. Venice menzenite marshelde millicratch morningglory, annual mustards nettles onion, wild pennycress pepperweed, field pigweed plentains роолов rabbitbrush radish, wild rape, wild redstem sage, coastal

saisity sand shinnery oak shepherdspurse sickiepod ementweed sneezeweed, bitter sowthistle, annual spanishneedles sumec sunflower sweetclove tansymusterd tensyragwort thistle, buil thistie, musk thistie, Russian velvetlesf verveine vetch water plantsin witchweed wormwood vellow rockel vellow starthistic

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

sagebrush, big

sagebrush, sand

Apply ESTEF ON 6E Herbicide as water or oil spray during warm weather when weeds or brush are actively growing Application under drought conditions often will give poor results. Use low spray pressure to minimize spray drift. On cropiand and along roadsides, do not exceed 20 psi pressure. Apply enough spray volume to provide uniform coverage of weeds and brush, usually 5 to 20 gallons per acre by ground equipment and 1 to 5 gallons by aircraft Higher gallonage may be used if desired to improve spray coverage. Generally, the lower dosages recommended on this tabel will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species and under conditions where control is more difficult, the higher dosages will be needed. For crop uses, do not mix with oil or other adjuvants unless specifically recommended on this label Deep-rooted perennial weeds such as Canada thistle and field bindweed and many woody plants usually require repeated applications for maximum control. Do not apply ESTERON 6E where spray drift may contact nearby susceptible crops or other desirable plants or may contaminate water for irrigation or domestic use. Read and follow all Use Precautions given on this label.

NOTE: If there are uncertainties concerning special local use situations or specific crop variety tolerances to 2.4-D, consult your agricultural Experiment Station or Extension Service wead specialists for advice

TO PREPARE THE SPRAY: (1) Fill the spray tank about half full with water, then add the required amount of ESTERON 6E Herbicide, with agitation, and finally the rest of the water. NOTE, ESTERON 6E Herbicide in water forms an emulsion which tends to separate unless the mixture is kept agitated. (2) If oil is added, first mix the ESTERON 6E Herbicide and the oil and then add this mixture to the water. However, with adequate agitation, the oil can be added after the ESTERON 6E Herbicide is mixed in the water. (3) If straight oil is used, a solution is formed and separation does not occur. Do not allow any water to get into the oil-herbicide mixture to avoid formation of an invert emulsion.

WEED CONTROL IN SMALL GRAINS NOT UNDERSEEDED WITH A LEGUME: NOTE: Do not permit dairy animals or meat animals being finished for slaughter to lorage or graze treated grain fields within 2 weeks after treatment

Spring and winter wheat, barley and rye: Apply ½ to ¾ pint per acre. Spray when grain is in full tiller stage (usually 4 to 8 inches fail) but before the boot stage and when weeds are small. Do not apply before the tiller stage nor from early boot to the dough stage. Higher rates, up to 1½ pints per acre, may be needed to handle difficult weed problems in certain areas such as under dry conditions especially in western areas. However, do not use unless possible crop injury will be acceptable.

Spring Seeded Oats: Apply 1/5 pint per acre at the full tifler stage but before the early boot stage. Oats are less tolerant to 2.4-D than wheat or barley and are more likely to suffer some injury.

Fall Seeded Oats (Southern) Grown for Grain: Apply ½ to 1 pint per acre after full tillering but before the early boot stage. Some difficult weeds may require higher rates for maximum control but crop injury may result. Do not spray during or immediately following cold weather.

Preharvest Treatment: Apply % to 1% pints per acre when grains are in the hard dough stage to control large weeds that may interfere with harvest. Best results will be obtained when soil moisture is sufficient to cause succulent weed growth NOTE: Do not feed treated straw to livestock.

WEED CONTROL IN CORN: Use one of the following three programs. Preemergence: Apply 1 to 23/2 pints per acre to soil anytime after planting but before corn emerges. Do not use on light sandy soil Emergence: Apply 35 pint per acre just as corn plants are breaking ground. Posternergence: After emergence of corn, use 1/2 pint per acre. Application of 5 to 3/2 oint per agre may be needed for maximum control of some weeds but such rates are more likely to injure the corn If corn is over 8 inches tall, use drop nozzles to keep the spray off the corn foliage as much as possible. Do not apply from the tasseling to dough stage. Do not use with oil. atrazine or other adjuvants. Crop injury is more likely to occur if corn is growing rapidly under high temperature and high soil moisture conditions. To reduce breakage of stalks from temporary brittleness caused by 2.4-D. delay cultivation for 8 to 10 days after treatment. NOTE: Hybrids vary in response to 2.4-D and some are easily injured. Spray only varieties known to be tolerant to 2.4-D. Contact seed company, Agricultural Experiment Station or Extension Service weed specialists for this information

WEED CONTROL IN SORGHUM (MILO): Apply ½ pint per acre when sorghum is 5 to 15 inches tall. A higher rate of ½ to ¾ pint per acre may be needed to control some weeds but the chance for crop injury is likewise increased. Do not use with oil. Do not treat before the sorghum is 5 inches tall nor during the boot, flowering or early dough stages. If sorghum is taller than 8 inches, use drop nozzles to keep the spray off the foliage as much as possible. Temporary crop injury may occur under conditions of high soil moisture and high air temperatures. Varieties vary in tolerance to 2,4-D and some hybrids are quite sensitive. Spray only varieties known to be tolerant to 2.4-D. Contact seed company and Exteriorin.

WEED CONTROL IN GRASS SEED CROPS: Use \$6 to 1 pint per acre in the amount of via.c.; coursed for uniform application by air or ground equipment. Apply to established stands in spring from the titler to early boot stage. Do not spray in boot stage. New spring ceatings may be treated with the lower rate after the grasses have at least five leaves. Perennial weed regrowth may be treated in the fail:

WEED AND BRUSH CONTROL IN AANGELANG AND GRASS PASTURES: NOTE: Does by the dairy are ball on treated areas within 7 days after approaches. Do not tile on bentgrasses, affaffa, clover or other legumes or on newly seeded pastures. Do not apply after heading begins or when grass is in the boot to milk stage where grass seed production is desired.

add

Grazing Restrictions: Do not graze lactating dairy animals on treated areas within 7 days after application. Do not harvest grass cut for hay from treated areas for 30 days. Withdraw meat animals from treated forage at least 3 days before slaughter.

Bitterweed, Broomweed, Croton, Docks, Kochia, Marshelder, Muskthistle and Other Broadleaf Weeds: Use 2% pints of ESTERON 6E Herbicide per acre in the amount of water needed for uniform application. If the weeds are young and growing actively, 1½ pints per acre will provide control of some species. Deep-rooted perennial weeds may require repeated treatments in the same year or in subsequent years.

Witd Gartic and Wild Onion: Apply 2½ to 4 pints per acre making three applications (fall-spring-fall or spring-fall-spring) starting in late fall or early spring

Weed Control in Newty Sprigged Coastal Bermudagrass: Apply 11/5 to 23/5 pints per acre preemergence and/or postemergence

Sand Shinnery Oak and Sand Sagebrush: On the oak, use 1½ pints in 5 gallons of oil or in 4 gallons of water plus 1 gallon of oil per acre. Apply by aircraft between May 15 and June 15. On the sagebrush, use 1½ pints in 3 gallons of oil per acre and apply by aircraft when foliage is fully expanded and the brush is actively growing.

Big Sagebrush and Rabbitbrush: Use 2% to 4 pints per acre in 2 to 3 gallons of oil or in 3 to 5 gallons of oil-water emulsion spray. For rabbitbrush, the 4 pint rate is usually required. Brush should be leated out and growing actively when treated. Retreatment may be needed

Chamise, Manzanita, Buckbrush, Coastal Sage,
Coyotebrush and Certain Other Chaparral Species: use
2% to 4 pints per acre in 5 to 10 gallons of water. One gailon
of fuel oil may be included in the spray mixture for added
effectiveness. Make applications by aircraft or ground
equipment to obtain uniform spray coverage. For effective
control, the brush must be fully leafed out and growing
actively when sprayed. Retreatment may be needed

WOODY PLANT CONTROL IN NON-CROP AREAS: To control species susceptible to 2.4-D in right-of-ways. fencerows, roadsides, and along drainage ditchbanks, spray brush up to 5 to 8 feet tall after spring foliage is well developed, using 4 to 5 pints of ESTERON 6E Herbicide in 100 gallons of water and wetting all parts of the brush including foliage, stems and bark. This may require up to 400 gallons of spray per acre for adequate coverage of solid stands of brush. Make application in such a way as to prevent chift of the spray off the area being treated. Spraying can be effective at any time up to 3 weeks before frost as long as soil moisture is sufficient for active growth of the brush. Control will be less effective in mid-summer during hot dry weather when soil moisture is deficient and plants are not actively growing. Oil or wetting agent may be added to the spray if needed for increased effectiveness

WEED CONTROL IN NON-CROP AREAS SUCH AS LAWNS, GOLF COURSES, CEMETERIES, PARKS, AIRFIELDS, ROADSIDES, VACANT LOTS, DRAINAGE DITCH BANKS: Apply 11/2 to 4 pints of ESTERON 6E Herbicide per acre in the amount of water needed for uniform application. Usually 21/3 pints per acre provides good weed control under average conditions. Treat when weeds are young and growing well. Do not use on creeping grasses such as bent and St. Augustine except for spot treating, nor on newly seeded turf until grass is well established Reseeding of treated areas should be delayed following treatment. With spring application, reseed in the fall; with fall application, reseed in the spring. Legumes are usually damaged or killed so do not treat areas where the legumes are desired. Deep-rooted perennial weeds may require repeated treatments in the same season or in subsequent years

TULE (BULRUSH) AND OTHER RUSHES: Mix 2% pints of ESTERON 6E Herbicide and 1 gallon of diesel oil or kerosene, then add this mixture to 100 gallons of water. Spray to wet all foliage (400-800 gallons per acre). Addition of a wetting agent may be advisable. Apply in the spring during flower head emergence. Respray if needed when regrowth is 3 to 5 feet tall.

SPOT TREATMENT: To control broadleaf weeds in small noncropland areas with a hand sprayer, use 1/2 pint of ESTERON 6E Herbicide in 3 gallons of water and spray to thoroughly wet all wend foliage. Keep splay mixture agitated to prevent separation.

USE PRECAUTIONS

Do not apply ESTERON 6E Herbicide directly to, or otherwise permit it to come into contact with cotton, grapes, fruit trees, vegetables, flowers or other desirable crops or ornamental plants which are sensitive to 2,4-D herbicide. Do not permit spray mist containing it to drift onto them, since even small quantities of t spray, which may not be visible, can cause severe injury during both growing and dormant periods. Use coarse sprays to minimize drift. With ground equipment, spray drift can be lessened by keeping the spray boom as low as possible; by applying 20 gallons or more of spray per acre; by using no more than 20 pounds spraying. pressure with flat fan or flooding flat fan nozzle tips; by spraying when wind velocity is low; and by stopping all spraying when wind exceeds 6 to 7 miles per hour. Do not apply with hollow cone-type insecticide or other nozzles that produce a fine-droplet spray.

With aircraft application, drift can be lessened by applying not less than 5 gallons of spray per acre; by using no more than 20 pounds spray pressure at the nozzles; by using nozzles which produce a coarse spray pattern; and by spraying only when the wind velocity is less than 5 miles per hour

Applications by aircraft, grounding and hand dispenser should be carried out only when there is no hazard from spray drift. Do not apply in the vicinity of cotton, grapes, tematoes or other desirable 2,4-D susceptible crop or ornamental vegetation. Do not spray when the wind is blowing towards susceptible crops or ornamental plants.

At high temperatures vapors from this product may injure susceptible plants growing nearby. Do not use in a greenhouse. Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination or plant growth

To avoid injury to desirable plants, do not handle or apply other agricultural chemicals with the same equipment used for ESTERON 6E except as specified on this label.

Local conditions may affect the use of herbicides. Consulty your State Agricultural Experiment Station or Extension Service weed specialists for advice in selecting treatments from this label to best fit local conditions. Be sure that use of this product conforms to all applicable regulations. Apply this product only as specified on the label.

REENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. The front panel PRECAUTIONARY STATEMENTS should be read to workers as well as the instructions not to enter until sprays have dhed. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral ... warnings must be given if there is reason to believe that written warnings cannot be understood by workers Written warnings must include the following information: CAUTION. Areas treated with ESTERON 6E Herbicide on (date of application). Do not enter without appropriate projective clothing until sprays have dried. (Insert here Statements of Practical Treatment as on front panel)

ENDANGERED SPECIES RESTRICTIONS

The following restrictions apply to use of this product after

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Mixing and Loading: Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

astureland, in the counties listed below, you must obtain the PES CIDE USE BULLETIN FOR PROTECTION OF ENDA (CERED SPECIES for the county in which the product to be used. The bulletin is available from your County Extension Ayent, State Fish and Game Office, or your esticide dealer. Use of this product in a manner inconsistent with the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES is a violation of Federal laws.

CROPS - Corn, Wheat, Oats, Sorghum, Barley and Rye

LABAMA: Colbert Greene, Jackson, Lamar, Lauderdale, Irmestone, Madison, Marshall, Morgan, Pickens and Sumter RKANSAS: Clay, Clark, Cross, Lawrence, Lee, Poinsette, Randolph, Sharp and St. Francis. CALIFORNIA: Solano LORIDA: Broward, Dade, Glades and Palm Beach KENTUCKY: Baltard, Butler, Edmundson, Green, Hart, ackson, Laurel, Livingston, Marshall, McCracken, IcCready, Pulaski, Rockcastle, Taylor, Warren and Wayne. IIISSISSIPPI: Itawamba, Lowndes, Monibe and Noxubee. IORTH CAROLINA: Edgecombe, Nastrand Pitt TENNESSEE: Bedford, Blount, Claiborne, Decatur, Franklin, Ilancock, Hardin, Hickman, Knox, Lingbin, Loudon, Marshall Haury, Meigs, Monroe, Rhea, Roane/Scott, Sequatchie, Smith, Sullivan and Wayne. VIRGINIA: Lee, Rusself, Scott, Smyth, Tazewell, Washington and Wise

Delete

ANGE AND PASTURELAND

LABAMA: Cherokee, De Kalb Elowah, Jackson and Marshall ARIZONA: Cochise, Coconino, Gila, Graham taricopa, Mohave, Navajo, Pijha, Pinat and Yavapai ALIFORNIA: Atameda, Butje, Colusa, Contra Costa, resno, Glenn, Inyc, Lake, Los Angeles, Mendocino, lerced, Nevada, Orange, Sacramento, San Benito, San Bernardino San Clemente/sland, San Diego, San Francisco an Joaquin, San Luis Olfispo, San Maico, Santa Barbara, anta Barbara Island, Sølano, Sutter, Tehema, Veniura and olo COLORADO: Delfa, Jackson, La Piata, Mesa. Iontezuma and Montrose, FLORIDA: Charlotte, Franklin, efferson, Lee, Liberty and Orange, GEORGIA: Brantley, bwns and Wayne, HAWAII: Islands of Hawaii and Maui and he District of Lahaijfa. IDAHO: Idaho. ILLINOIS:DuPage. ee, McHenry, Ogle and Winnebago, IOWA; Butler, Clarke, ickinson, Emme, Howard, Kossuth, Lucas, Osceola, Story nd Winneshiek KENTUCKY: Fleming, Nicholas and obertson MINNESOTA: Cottonwood, Goodhue, Jackson nd Renville MISSOURI: Christian, Dade and Greene
EBRASKA: Cherry, Garden and Hooker NEVADA: Nye
EW MEXICO: Catron, Chaves, Dona Ana, Eddy, Lincoln, NicKinley, Ofero, San Juan and Sierra NORTH CAROLINA: endersor/ OREGON: Harney and Wallowa. SOUTH AROLINA: Greenville and McCormick TENNESSEE: avidsog, Rutherford and Wilson, TEXAS: Bandera, Brazos rewster, Burleson, Culberson, Edwards, El Paso, Grimes. arris Hays, Hudspeth, Jim Wells, Kerr, Kimble, Kleburg, s. Pecos.Presidio, Real, Refugio, Robertson, Runnels lugustine, Starr, Terrell, Uvalde, Val Verde and Zapata H: Beaver, Cache, Carbon, Duchesne, Emery, Garlield, ind, Iron, Kane, Piute, San Juan, Sanpete, Sevier, Uintah ah, Washington and Wayne, WISCONSIN: Dane, Pierce,

STORAGE AND DISPOSAL

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

Storage: Keep container tightly closed when not in use. This product can be stored in an unheated building.

SPECIMEN LABEL 86-1175 DATE CODE 987 REPLACES SPECIMEN LABEL FOR 2,4-D LV6E 86-1862 DATE CODE 984 DISCARD PREVIOUS SPECIMEN LABELS Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Lawalf these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for criticaline.

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Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by c.her procedures approved by state and local authorities. (Metal containers)

Container Disposal: Triple rinse (or equivalent). Then dispose of in a sanitary landfill, or by incineration, or, if allowed by local authorities, by burning. (Plastic containers 5-gal or less)

Insert C

Insert D

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WARRANTY LIMITATIONS AND DISCLAIMER

onforms to the chemical description on the label and is easonably fit for the purposes stated on the label when strict accordance with the directions therein under normal onditions of use. THIS IS THE ONLY WARRANTY MADE IN THIS PRODUCT NO OTHER EXPRESS AND NO MPLIED WARRANTY OF MERCHANTABILITY O ITNESS FOR A PARTICULAR PURPOSE IS MADE DUTSIDE OF THIS LABEL. Therefore, neither this warranty for any other - arranty of merchantability or lighess for a articular purpose, express or implied, extends to the use of his product contrary to label instructions (yicluding donditions noted on the tabel, such as unlavorable emperatures, soil conditions, etc.), unger abnormal onditions (such as excessive rainfall/drought, tornadoes, urricanes, etc.) or under conditions not reasonably breseeable to or beyond the control of seller

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, rie., ige ice, strict liability, or other legal theories), buyer c i user must promptly notify in writing The Dow Chemica! C impany of any claims to be elight a to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the elegation of the Dow Chemical Company:

- (1) Refund of pyrchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used

he seller will not be liable for consequential or neidental damages or losses

he terms of this Warranty Limitations And Disclaimer cannot e varied by any written or verbal statements or agreements my employee or sales agent of the seller is not authorized by any or exceed the terms of this Warranty Limitations And bisclaimer in any manner

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DowElanco

Indianapolis, Indiana 46268 U.S.A. Trademark of Dovičianco



THE DOW CHEMICAL COMPANYMidland, Michigan 48674 U.S.A;

Midland: Michigan 48674 U.S.A.- ; -+Trudoment of THE DOW CHEMICAL COMPAN

REVISIONS INCLUDE:

- 1) ADDITION OF ENDANGERED SPECIES RESTRICTIONS
- 2) ADDITION OF IRRIGATION PROHIBITION STATEMENT
- 3) CHANGED EMESIS STATEMENT

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Insert A Registration Standard Requirement

"This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters."

Insert B

NOTICE

Read the entire label.

Before buying or using this product, read Warranty Disclaimer and Limitation of Remedies sections elsewhere on this label.

Insert C Registration Standard Requirement

General: Consult federal, state, or local disposal authorities for approved alternative procedures.

Be sure that use of this product conforms to all application regulations.

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Insert D

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 FOR 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. Crop 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 temperatures, 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.

Specimen Label

Esteron* 6E Herbicide

CONCENTRATED - EFFECTIVE - LOW VOLITILE CONTAINS ISOOCTYL ESTERS OF 2,4-D

For the Control of Many Broadleaf Weeds, Herbaceous Perennials and Woody Plants Susceptible to 2,4-D in Grass Pastures, Certain Crops and Non-Crop Areas.

CAUTION PRECAUCION:

PRECAUCION AL USUARIO:

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

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
HARMFUL IF SWALLOWED OR
ABSORBED THROUGH SKIN
• PROLONGED OR FREQUENTLY
REPEATED SKIN CONTACT MAY
CAUSE ALLERGIC SKIN
REACTIONS IN SOME INDIVIDUALS

Avoid Breathing Vapors Or Mists • Avoid Contact With Skin, Eyes, Or Clothing • When Handling Concentrate Wear Suitable Eye Protection And Chemical Resistant Gloves • Wash Thoroughly After Handling • Do Not Apply This Product In Such A Manner As To Directly Or Through Drift Expose Workers Or Other Persons. The Area Being Treated Must Be Vacated Of Unprotected Persons.

STATEMENTS OF PRACTICAL TREATMENT: httpaace of contact: Immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. If swallowed: DO NOT induce vomiting. Call a physician Do not induce vomiting or give anything by mouth to an unconscious person.

Environmental Hazards

This product is toxic to aquatic invertebrates. Entil Crimoft may adversely affect aquatic invertebrates and montarget plants. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters.

NOTICE

Read the entire label. Use only according to label directions.

Before buying or using this product, read Warranty Disclaimer and Limitation of Remedies sections elsewhere on this label.

IN CASE OF AN SMERGENCY endangering life or property involving this product, call collect 517-636-4400 ; ;

AGRICULTURAL CHEMICAL CONTROL Do Not Ship or Store with Food, Fends, Drugs, or Clothing

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Esteron*

WEED LIST

ESTERON 6E Herbicide is recommended for control of numerous broadleaf weeds and certain 2,4-D susceptible woody plants without injury to most established grasses. Species controlled include the following, plus many others:

beggarticks bitterweed bluewood, Texas broomweed buckbrush huckwheat, wild burdock burheed carpetweed catnio

chamies chicory cocklebur coffeeweed сотпложен covotabrush croton dandelion docks dogfennel elderberry farawood galinsoga garlic, wild gostsbeard halogeton hemo, wild

iimsonweed . kochia lemben uerter loco, bigbend mallow, Venice manzanita marshelder

milkvetch morninggiory, annual mustards nettles onion, wild Dennycress pepperweed, field pigweed plentains poorioe rabbitbrush radish, wild ragweed rape, wild redstem sane, coastal sagebrush, big

send shinnery oak shenherdspurse sickleood smartweed sneezeweed, bitter sowthistle, annual spenishneedies **sunforms** sweetclover tansymustard tansyragwort thistle, bull thistle, musi thistle, Russian tumbleweed velvetlesi vervains vetch water plantain witchweed wormwood yellow rocket yellow starthistle

DIRECTIONS FOR USE

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

sagebrush, sand

Do not apply this product through any type of irrigation system. Apply ESTERON 6E Herbicide as water or oil spray during warm weather when weeds or brush are actively growing. Application under drought conditions often will give poor . . . results. Use low spray pressure to minimize spray drift. On cropland and along roadsides, do not exceed 20 psi pressure. Apply enough spray volume to provide uniform coverage of weeds and brush usually 5 to 20 gallons per acre by ground equipment and 1 to 5 gallons by aircraft. Higher gallonage may be used if desired to improve spray coverage. Generally, the dower dosages recommended on this label will be satisfactory for young, sucquent growth of sensitive reed species. For 4css sensitive species and under conditions where control is more difficult, the higher dosages will be needed. For crop , uses, do not mix with oil or other adjuvants unless specifically recommended on this label. Deep-rooted perennial weeds such as Canada thistle and field bindweed and many woorly plants usually require repeated applications for maximum control. Do not apply ESTERON 6E where spray drift may and contact nearby susceptible crops or other desirable plants or may contaminate water for irrigation or domestic use.

NOTE: If there are uncertainties concerning special local use situations or specific crop variety tolerances to 2,4-D, consult your State Agricultural Experiment Station or local Extension Service weed specialist for advice.

Read and follow all Use Precautions given on this label.

TO PREPARE THE SPRAY:

1. Fill the spray tank about half full with water, then add the circle required amount of ESTERON 6E Herbicide, with agitation, are fund finally the rest of the water.

. ... NOTE: ESTERON 6E Herbicide in water forms an emulsion which tunds % Separate unless the mixture is kept agitated. 1 42 If oil is added, first mix the ESTERON 6E Herbicide and the oil and then add this mixture to the water. However, with hdequate autation, the oil can be added after the ESTERON CL Hurbicide is mixed in the water.

, 43, fl straight oil is used, a solution is formed and separation cloes not occur. Do not allow any water to get into the oilherbicide ruxture to avoid formation of an invert emulsion.

WEED CONTROL IN SMALL GRAINS NOT UNDERSEEDED WITH A LEGUME:

NOTE: Do not permit dairy animals or meat animals being finished for slaughter to forage or graze treated grain fields within 2 weeks after treatment.

Spring and Winter Wheat, Barley and Tye: Apply 1/3 to 2/3 pint per acre. Spray when grain is in full tiller stage (usually 4 to 8 inches tall) but before the boot stage and when weeds are small. Do not apply before the tiller stage nor from early boot to the dough stage. Higher rates, up to 1 1/s pints per acre, may be needed to handle difficult weed problems in certain areas such as under dry conditions especially in western areas. However, do not use higher rates unless possible crop injury will be acceptable.

Spring Seeded Oats: Apply 1/2 pint per acre at the full tiller stage but before the early boot stage. Oats are less tolerant to 2,4-D than wheat or barley and are more likely to suffer some injury.

Fall Seeded Oats (Southern) Grown for Grain: Apply 1/2 to 1 pint per acre after full tillering but before the early boot stage. Some difficult weeds may require higher rates for maximum control but crop injury may result. Do not spray during or immediately following cold weather.

Preharvest Treatment: Apply 2/3 to 1 1/3 pints per acre when grains are in the hard dough stage to control large weeds that may interfere with harvest. Best results will be obtained when soil moisture is sufficient to cause succulent weed growth.

NOTE: Do not feed treated straw to livestock.

WEED CONTROL IN CORN: Use one of the following three programs.

Preemergence - Apply 1 to 2 2/3 quarts per acre to soil anytime after planting but before com emerges. Do not use on light sandy soil.

Emergence - Apply ²/₂ pint per acre just as corn plants are breaking ground.

Postemergence - After emergence of corn use 1/3 pint per acre. Application of 1/2 to 2/3 pint per acre may be needed for maximum control of some weeds but such rates are more likely to injure the corn. If corn is over 8 inches tall, use drops nozzles to keep the spray off the corn foliage as much as possible. Do not apply from the tasseling to dough stage. Do not use with oil, atrazine or other adjuvents. Crop injury is more likely to occur if corn is growing rapidly under high *emperature and high soil moisture conditions. To reduce breakage of stalks from temporary brittleness caused by 2,4-D, delay cultivation for 8 to 10 days after treatment.

NOTE: Hybrids vary in response to 2.4-D and some are easily injured. Spray only varieties known to be tolerant to 2,4-D. Contact seed company or your Agricultural Experiment Station or Extension Service weed specialists for this information.

WEED CONTROL IN SORGHUM (MILO): Apply 1/3 pint per acre when sorghum is 5 to 15 inches tall. A higher rate of 1/2 to ²/₃ pint per acre may be needed to control some weeds but the chance for crop injury is likewise increased. Do not use with oil. Do not treat before the sorghum is 5 inches tall nor during the boot, flowering or early dough stages. If sorghum is taller than 8 inches, use drop nozzles to keep the spray off the foliage as much as possible. Temporary crop injury may occur under conditions of high soil moisture and high air temperatures. Varieties vary in tolerance to 2.4-D and some hybrids are quite. sensitive. Spray only varieties known to be tolerant to 2.4-D. Contact seed company or your Agricultural Experiment Station or Extension Service weed specialists for this information.

WEED CONTROL I. GRASS SEED CROPS: Use 2/3 to 1 pint per acre in the amount of water required for uniform application by air or ground equipment. Apply to established stands in spring from the tiller to early boot stage. Do not spray in boot stage. New spring seedings may be treated with the lower rate after the grasses have at least five leaves. Perennial weed regrowth may be treated in the fall.

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WEED AND BRUSH CONTROL IN RANGELAND AND GRASS PASTURES:

NOTE: Do not use on bentgrass, alfalfa, clover, or other legumes or on newly seeded pastures. Do not apply after heading begins or when grass is in the boot to milk stage where grass seed production is desired.

Grazing Restrictions: Do not graze lactating dairy animals on treated areas within 7 days after application. Do not harvest grass cut for hay from treated areas for 30 days. Withdraw meat animals from treated forage at least 3 days before slaughter.

Bitterweed, Broomweed, Crotch, Docks, Kochia, Marshelder, Musikthistie and Other Broadleaf Weeds: Use 2.3/a pints of ESTERON 6E Herbicide per acre in the amount of water needed for uniform application. If the weeds are young and growing actively, 1.3/a pints per acre will provide control of some species. Deep-rooted perennial weeds may require repeated treatments in the same year or in subsequent years.

Wild Gartic and Wild Onion: Apply 2 2/s to 4 pints per acre making thre "Il-spring-fall or spring-fall-spring) starting in lat spring.

Sand Shinnery Oak and Sand Sagebrush: On the oak, use 1 ½ pints in 5 gallons of oil or in 4 gallons of water plus 1 gallon of oil per acre. Apply by aircraft between May 15 and June 15. On the sagebrush, use 1 ½ pints in 3 gallons of oil per acre and apply by aircraft when foliage is fully expanded and the brush is actively growing.

Big Sagebrush and Rabbitbrush: Use 2 ²/s to 4 pints per acre in 2 to 3 gallons of oil or in 3 to 5 gallons of oil-water emulsion spray. For rabbitbrush, the 4 pint rate is usually required. Brush should be leafed out and growing actively when trea ed. Retreatment may be needed.

Chamise, Manzanita, Buckbrush, Coastal Sage, Coyotebrush and Certain Other Chaparral Species: Use 2 ³/₃ to 4 pints per acre in 5 to 10 gallons of water. One gallon of fuel oil may be included in the spray mixture for added effectiveness. Make applications by aircraft or ground equipment to obtain uniform spray coverage. For effective control, the brush must be fully leafed out and growing actively when sprayed. Re-treatment may be needed.

WOODY PLANT CONTROL IN NON-CROP ARFAS:

To control species susceptible to 2,4-D in right-Jf ways, fencerows, roadsides, and along drainage ditch banks, spray brush up to 5 to 8 feet tall after spring foliage is well developed, using 4 to 5 pints of ESTERON 6E Herbicide in 100 gallons of water and wetting all parts of the brush including foliage, sterns and dark. This may require up to 400 gallons of spray per acre for adequate coverage of solid stands of brush. Make application in such a way as to prevent drift of the spray off the area being troated. Spraying can be effective at any time up to 3 weeks before frost as long as the soil moisture is sufficient for active growth of the brush. Control will be less effective in midsummer during hot dry weather when soil moisture is deficient and plants are not actively growing. Oil or wetting agent may be added to the spray, if needed, for increased effectiveness.

WEED CONTROL IN NON-CROP AREAS SUCH AS LAWNS, GOLF COURSES, CEMETERIES, PARKS, AIRFIELDS, ROADSIDES, VACANT LOTS, DRAINAGE DITCH BANKS:

Apply 1 ¹/₃ to 4 pints of ESTERON 6E Herbicide per acre in the amount of water needed for uniform application. Usually 2 ²/₃ pints per acre provides good weed control under average conditions. Treat when weeds are young and growing well. Do not use on creeping grasses such as bent and St. Augustine except for spot treating nor on newly seeded turf until grass is well established. Reseeding of treated areas should be delayed following treatment. With spring application, reseed in the fall; with fall application, reseed in the spring. Legumes are usually damaged or killed so do not treat areas where legumes are desired. Deep-rooted perennial weeds may require repeated treatments in the same season or in subsequent years.

TULE (BULRUSH) AND OTHER RUSHES: Mix 2 ²/₃ pints of ESTERON 6E Herbicide and 1 gallon of diesel oil or kerosene, then add this mixture to 100 gallons of water, Spray to wet all foliage (400-800 gallons per acre). Addition of a wetting agent may be advisable. Apply in the spring during flower head emergence. Respray if needed when regrowth is 3 to 5 feet tall.

SPOT TREATMENT: To control broadleaf weeds in small non-cropland areas with a hand sprayer, use 1/4 pint of ESTERON 6E Herbicide in 3 gallons of water and spray to thoroughly wet all weed foliage. Keep spray mixture agitated to prevent separation.

USE PRECAUTIONS

Do not apply ESTERON 6E Herbicide directly to, or otherwise permit it to come into contact with cotton, grapes, fruit trees, vegetables, flowers or other desirable crops or ornamental plants which are sensitive to 2,4-D herbicide. Do not permit spray mist containing it to drift onto them, since even small quantities of the spray, which may not be visible, can cause severe injury during both growing and dormant periods. Use coarse sprays to minimize drift. With ground equipment, spray drift can be lessened by keeping the spray boom as low as possible; by applying 20 gallons or more of spray per acre; by using no more than 20 pounds spraying pressure with flat fan or flooding flat fan nozzle tips; by spraying when wind exceeds 6 to 7 miles per hour. Do not apply with hollow cone-type insecticide or other nozzles that produce a fine-droplet spray.

With aircraft application, drift can be lessened by applying not less than 5 gallons of spray per acre; by using no more than 20 pounds spray pressure at the nozzles; by using nozzles which produce a coarse spray pattern; and by spraying only when the wind velocity is less than 5 miles per hour.

Applications by aircraft, ground rig and hand dispenser should be carried out only when there is no hazard from spray drift. Do not apply in the vicinity of cotton, grapes, tomatoes or other desirable 2,4-D susceptible crop or ornamental vegetation. Do not spray when the wind is blowing towards susceptible crops of ornamental plants.

At high temperatures vapors from this proclust may injure susceptible plants growing nearby. Do not use in a greenhouse, Excessive amounts of this herbicide in the sot way temporarily inhibit seed germination or plant growth.

To avoid injury to desirable plants, do not handle or apply other agricultural chemicals with the same equipment is efformed in this label.

Mixing and Loading: Most cases of groundwater contamination involving phenoxy herbicides such as ?,4-D have been associated with mixing/loading and proposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

Local conditions may affect the use of herbicides. Consult your State Agricultural Experiment Station or Extension Service weed specialists for advice in selecting treatments from the label to best fit local conditions. Be sure that use of this product conforms to all applicable regulations. Apply this product only as specified on the label.

REENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops tractade with this product, consult your State Department of A configuration. Written or oral warnings must be given to workers who are expected to be in a treated area. In it an area about to be treated with this product. The front panel.

PRECAUTIONARY STATEMENTS should be read to worker as well as the instructions not to enter until sprays and dried.

When oral warnings are given, warnings shall be given in a language customarily understood by workers. Of a warnings must be given if there is reason to believe that written warnings.

cannot be understood by workers. Written warnings must include the following information: "CAUTION: Area treated with ESTERON* 6E Herbicide on (date of application). Do not enter without appropriate protective clothing until sprays have dried. (Insert here Statements of Practical Treatment as on front panel)".

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Keep container tightly closed when not in use. This product can be stored in an unheated building.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal (Metal): Do not reuse container. Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Container Disposal (Plastic): Do not reuse container. Triple rinse (or equivalent). 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 smcke.

General: Consult federal, state, or local disposal authorities for approved alternative procedures.

Be sure that use of this product conforms to all application regulations.

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 FOR 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. Grep injury, tack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions incited on the label, such as unfavorable temperatures, soil conditions etc., abnormal conditions (such as excessive rainfall, drought, (crinadoes, 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:

- 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 Disclaim r 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.

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REVISIONS INCLUDE:

- 1) VARIOUS UPDATES TO MEET EPA 2,4-D REGISTRATION STANDARDS
- 2) .HANGED REGISTRATION NUMBER FROM 464-347 TO DOWELANCO 62719-8
- 3) CHANGED WARRANTY STATEMENT TO REFLECT TRANSFER TO DOWELANCO