Mr. James R. Scott Kalo Agricultural Chemicals, Inc. 4550 W. 109th Street, Suite 222 Overland Park, KS 66211-1383

Dear Mr. Scott:

Subject: Amendment/Revised Label - (Delete cranberries; add 1 pound package size; add folder)

DEFY

EPA Registration Number 45989-9

Your Submission of January 13, 1983

The amendment referred to above, submitted in connection with registration under FIPRA is acceptable, provided that you:

- 1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. On the bag label, in the "Directions fo Use" section, add a statement referring the user to the folder at the bottom of the bag for complete directions for use.
 - b. Also on the bag label, based on the 70° F flash point of your product, the following statement is required under the heading "PHYSICAL OR CHEMICAL HAZARDS.":

Flammable. Keep away from heat and open flame.

2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

Richard F. Mountfort
Product Manager (23)
Pungicide-Berbicide Branch
Registration Division (78-767)

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LIMITED WARRANTY AND CONDITIONS OF SALE:

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Non Volatile Water Soluble 2,4-D Broadleaf Herbicide Crystals 0

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KEEP OUT OF REACH OF CHILDREN CAUTION

See side panel and folder on bottom or bagfor additional precautionary statements.

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Maguiactured by or for Kalp Agricultural Chemicals, tao

NET WEIGHT 1 LB 454 grams)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

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ENVIRONMENTAL BAZARDS

Do not apply directly to water except as specified on label. Do not apply where run off is likely to occur. Do not contaminate water used for irrigation or domestic purposes. Excessive amounts of 2,4. D in the soil may temporarily inhibit seed germination or plant growth.

U.S. Patent 4,001,006 E.P.A. Reg. No. 45989-9 E.P.A. Est. No. 45989-IL-1

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STATEMENTS PRECAUTIONARY

CONDITIONS OF SALE

I KALO AGRICULTURAL CHEMICALA LIE warrants only that this material conforms to the ablances of tips on on the label and is responsibly to the ablances of tips on on directed hereon under no real-conforms for use KALO AGRICULTURAL CHEMICALS USE STITMER MAKES NOR AUTHORIZES ANY AGENT OF REPRESENTATIVE TO MAKE ANY OTHER WARDS ANY VIDENTIAL OF THE MAKES NO MAKE ANY OTHER WARDS AND VIDENTIAL OF THE MAKES NO MAKE ANY OTHER WARDS AND VIDENTIAL OF THE MAKES NO MAKE ANY OTHER WARDS AND VIDENTIAL OF THE MAKES NO MAKES ANY OTHER WARDS AND VIDENTIAL OF THE MAKES NO MAKES AND OTHER WARDS AND VIDENTIAL OF THE MAKES NO MAKES AND OTHER WARDS AND VIDENTIAL OF THE MAKES NO MAKES AND OTHER WARDS AND VIDENTIAL OF THE MAKES NO MAKES AND OTHER WARDS AND VIDENTIAL OF THE MAKES NO MAKES AND OTHER WARDS AND VIDENTIAL OF THE MAKES NO MA MAKE ANY OTHER WAPPANTY, WHETHER OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. EXPRESS OR IMPLIED CONCERNING THIS MATERIAL

2 Critical and or informed in factors beyond the control of KALO AGRICULTURAL CHEMICALS INC. prevent it from wan mating all risks in connection with the use of this mate. mail Such risks unclude but are not amuted to damage to mants and crops to which the material is applied, lack of complete, sortiol and damage or used by misepplication or drift to other plants or crope. Such risks one in even though the product is reasonably in for the uses stated hereon and even though abel invertions are followed:

Buyer and user withowtedge and assume all such risks and hability lescept three assumed by EALO AGRICUL-TUPAL CHEMICALS INC. in far I above) resulting from har fung morage and use of the material.

*NOTE: The above Limited Warrainty and Conditions of Sale may be affected by local governments, restrictions or laws For example, some states do not allow any umitation upon miles marrantee of teness and merchantability for carlam-products Therefore these uninations may not apply



Non Volatile Water Soluble 2.4-D Broadleaf Herbicide Crystals

Supplementary Label Information



Manufactured by or for Kalo Agricultural Chemicals, Inc. Overland Park, Kansas \$6211

NET WEIGHT 1 LB. (454 GMS.)

* By WL

Active Ingredient:

Dimethylar,monum 2.4-Dichiorophenoxyacetate Inert Ingredients

8.0

100.0

Contains 78.9% 2,4-Dichlorophenoxyscetic acid equivalent by weight.

Read Limited Warranty and Conditions of Sale before buying or using. If terms are not acceptable, return at once unopened for a full refund.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements.

U.S. Patent 4,001,008 E.P.A. Rog. No. 45989-9 E.P.A. Est. No. 45989-IL-1

THE AVAILABLE

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. READ AND FOLLOW ALL DIRECTIONS AND USE PRECAUTIONS ON THIS LABEL PRIOR TO APPLICATIONS.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Storage Do not store near fertilizer, seed insecticides or fungicide.

Pesticide Disposal:

Pesticide, spray inixiure, or rinse water that cannot be used according to laber instructions must be disposed of according to Federal or approved state procedures under Subtitle C of the Resource Conservation and Recovery Act

Container Disposal:

Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities.

To prepare the spray solution, add about half of the water to the mixing tark, then add DEFY with agitation and finally the balance of the water with continuing agitation. Use only water Use 5 to 10 gailons of water to fully dissolve one pound of DEFY Apply sufficient spray solution to ensure uniform coverage, but at least 5 gallons spray polution per acre.

stage

SELECTIVE WEED CONTROL IN CROPS

Rice: Apply ¹2 pound of DEFY per acre. Rice plants are sensitive to 2,4-D in early stages of growth. Delay spraying until late stages of tillering, at the first joint development, usually 6 to 9 weeks after crop emergence. Make all treatments well in advance of heading.

Sugarcane: Apply 1 pound of DEFY per acre as fall and spring drill (or band sprays). Apply 1'2 pounds DEFY per acre as broadcast spray immediately after layby.

Corn (Field and Sweet) and Sorghum (Mile): Apply in to I pound DEFY per acre when corn and sorghum are at least 4 to 10 inches tall. Drop nozzles are recommended after the crop reaches 8 to 10 inches in height to keep spray off foliage Do not apply to corn from tasseling to dough stage. Do not apply to sorghum during flowering or early dough stage. Do not cultivate within, 10 days after spraying while plants are brittle linury is more likely to occur when the crop is rapidly growing under high temperature and high soil moisture conditions. Where these conditions prevail, use the low rate of 1/4 pound per acre

NOTE Corn and sorghum hybrids vary in tolerance to 2,4 D. Some are easily injured. Spray only varieties known to be tolerant to 2,4-D. Consult the seed company or Agricultum 2.2 Mension Specialist for this information.

Small Grains not Underseeded with a Legume (Wheat, Oats, and Barley): Apply 14 to 15 pounds of DEFY per acre. On spring seeded grains use lower rate. Oats are more sensitive to 2,4-D than other grains and should be sprayed in the spring when well established Spray after the crop is fully tillered and before the bootstate. Do not apply from early boot through milk stage. Do not permit dairy or meat animals to forage or graze treated fields within 2 weeks after treatment. Do not feed treated straw to livestock.

Grass Pastures: Apply 1/2 to 2 pounds per acre preferably when weeds are small before the bud or early bloom stage. Use the lower rate if annual and biennial weeds are the major problem, the higher rate for perennial weeds. Repeat treatments may be needed for hard-to-kill weeds. Use the same rates after 3 to 4 week interval. Do not use on alfalfa, clover and other legumes. Do not treat newly seeded grass until grass is well established and apply the lower rate. In grass seed fields, make application in spring before head comes into boot. Use 1/4 to 11/4 pounds per acre. In some cases, carpet, buffaio, St. Augustine and dichondra may be injured. Do not graze dairy animals on treated areas within 7 days after treatment.

SELECTIVE WEED CONTROL IN NON-CROP AREAS SUCH AS ALONG HIGHWAYS AND RAILROADS RIGHTS-OF-WAY, DRAINAGE DITCH BANKS AND AROUND FARM BUILDINGS

For spot treatment, apply 1 to 2 pounds per acre in sufficient water to thoroughly wet the weeds. Repeat treatments may be recured to kill noxious perennial weeds such as bindweed, whitetop, perennial sow thistle, blue lettuce, bur ragweed, and Canada thistle. Apply on vigorous spring growth to early bloom stage and on fall regrowth.

To contro! small areas of woody plants, such as willow, honeysuckle, Virginia Creeper, alder and others susceptible to 2,4-D use 2 pounds of DEFY in 100 gallons of water; spray to thoroughly wet plants when in full leaf. Re-treat as necessary for control of regrowth and seedlings. In general, it is better to cut all woody growth and spray suckers when 2 to 4 feet high.

BEST DOCUMENT AVAILABLE

Tolder John A.

LIMITED WARRANTY AND CONDITIONS OF SALE*

1 KALO AGRICULTURAL CHEMICALS, INC. warrants only that this material conforms to the chemical description on the label and is reasonably fit for use when used strictly as directed hereon under normal conditions for use. KALO AGRICULTURAL CHEMICALS, INC NEITHER MAKES NOR AUTHORIZES ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, WHETHER OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. EXPRESS OR IMPLIED, CONCERNING THIS MATERIAL.

2 Critical and unforeseeable factors beyond the control of KALO AGRICULTURAL CHEMICALS, INC. prevent it from eliminating all risks in connection with the use of this material. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control and damage caused by misapplication or drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated hereon and even though label directions are followed.

Buyer and user acknowledge and assume all such risks and liability (except those assumed by KALO ACRICULTURAL CHEMICALS, INC. under 1 above) resulting from handling, storage and use of this material.

*NOTE The above limited Warranty and Conditions of Sale may be affected by local governmental restrictions or laws. Fix example, some states do not allow any limitation upon implied warranties of fitness and merchantability for certain products. Therefore these limitations may not apply.

Non Volatile
Water Soluble
2,4-D Broadleaf Herbicide
Crystals

Crystals

Dimethylam column
2,4-Dichloro henoxyacetan 2

Solublari Ingredient

Contains 78.9* 2 of Voltar opportunity of Sale before buying or weight.

Read Limited Warrange et al. 2 buying of Sale before buying or weight.

Read limited Warrant and Inditions of Sale before buying or using if terms are not also ptable, return at once impensed for a full refund.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side panel and folder on bottom of bag for additional precautionary statements.



Manufactured by or for Kalo Agricultural Chemicals, inc. Overland Park, Kansas 86211

KET WEIGHT I LB. 454 grams)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid inhalation of spray must and contact with skin, eyes or ciothing. In case of eye contact, flush with water for at least 15 minutes. In case of skin contact wash with soap and plenty of water. Remove and wash contaminated clothing before reuse. Individuals allergic to pesticides should not use this product.

ENVIRONMENTAL SAZARDS

Do not apply directly to water except as specified on label. Do not apply where run-off is likely to occur. Do not contaminate water used for urigation or dornest purposes. Excessive amounts of 2,4-D in the soil may temporarily inhibit seed germination or plant growth.

U.S. Patent 4,001,006 E.P.A. Reg. No. 45989-9 E.P.A. Est. No. 45989-IL-1 Curly Dock Curly Indigo Doglennel Immonweed

Sunflower
Tanny Mustard
Velvetical

The degree of control is dependent upon specie, a growth and overall growing conditions. Best results tained when weeds are young and actively growing.

DIRECTIONS FOR USE

h is a violation of Federal Law to use this product in a inconsistent with its labeling.

READ AND FOLLOW ALL DIRECTIONS AN PRECAUTIONS ON THE LABEL PRIOR TO API

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storadisposal. Do not store near fartilizer, seed, inescitor fungicide.

Posticide Disposal:

Pesticide, spray mixture, or rinse water that cannused according to label mixtuctions must be disp of according to Federal or approved state procesunder Subtitle C of the Resource Conservation an covery Act.

Container Disposal:

Completely empty bag by shaking and tapping and bottom to loosen clinging particles. Empty reinto application equipment. Then dispose of bag sanitary landfill or by incineration if allowed by and local authorities.

To prepare the spray solution, add about half of the the mixing tank, then add DEFY with agitation and to balance of the water with continuing agitation. Use of the Use 5 to 10 gallons of water to fully dissolve one; DEFY. Apply sufficient spray solution to insure coverage, but at least 5 gallons spray solution per



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I. KALO AGRICULTUIGLE I. RAIO AGRICULTURAL CHEMICALA THE WAITING ONLY that this material control to the physical statistics on the label and is reasonably to bright which the directly as directed hereon under noted to the metal of agricultural chemicals uses wither makes nor Authorizes any agent of representative to Make any other warranty, whether of fitness for a particular purpose or merchantability, express or implied, concerning this material

2 Critical and unforeseeable factors beyond the control of RALO AGRICULTURAL CHEMICALS, INC. prevent it from eliminating all risks in connection with the use of this material. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control and damage caused by misepplication or drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated hereon and even though label directions are followed.

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Non Volatile Water Soluble 2,4-D Broadleaf Herbicide Crystals

Supplementary Label Information



Manufactured by or for Kalo Agricultural Chemicals, Inc. Overland Park, Kansas 56211

NET WEIGHT 1 LB. (454 GMS.)

N By WL Active Ingredient: Dimethylammonuum 2,4-Dichlorophenoxyacetate 6.0 inen ingredients

Contains 78.9% 2,4-Dichlorophenoxyscetic acid equivalent by weight.

Read Limited Warranty and Conditions of Sale before buying or using. If lerms are not acceptable, return at once unopened for a full refund.

KEEP OUT OF REACH OF CRILDREN CAUTION

See additional precautionary statements.

U.S. Patent 4,001,006 E.P.A. Rog. No. 45889-9 E.R.A. Est. No. 45889-11-1

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid inhalation of apray mist and contect with size, eyes or clothing. In case of eye contact, this with water for at least 15 minutes. In case of size contact, wash with soap and plenty of water. Remove and wash contaminated clothing before reuse. Individuals allergic to pesticides should not use this product.

ENVIRONMENTAL HAZARDS

Do not apply directly to water except as specified on label. Do not apply where run-off is likely to occur. Do not contaminate water used for irrigation or domestic purposes. Exceptive amounts of 2,4-D in the soil may temporarily inhibit seed germination or plant growth.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT APPLY DEFY TO OR PERMIT DEFY TO COME IN CONTACT WITH 2,4-D SUSCEPTIBLE CROPS AND OTHER DESURABLE BROADLEAF PLANTS. DEFY is injunious to most broadleaf plants. Do not permit spray must containing DEFY to come is contact with each plants since even very small quantities which may not be visible can cause severe injury Susceptible clops include cotton, grapes, tobecto, vegetables, flowers, fruit trees, ornamentals and other destrable plants. Do NOT SPRAY WHEN SUSCEPTIBLE PLANTS OR CROPS ARE DOWNWIND.

Ground equipment usually will result in less drift, but drift still may occur. Spray only when wind velocity is less than 5 miles per hour. Use coarse sprays, keep spray boom kee, apply 30 gallons or more of spray per acre and use no more than 20 pounds per square inch spraying pressure. Do not apply with nozzles that produce a fine droplet spray.

Aerial application must only be made by applicators experienced in the use of 2,4-D herbicides. When senal application is used, drift can be lessened by using no more than 20 pounds apray pressure, using noistles which produce a coarse apray pattern, spraying only when wind velocity is less than 5 miles per hour, and spraying as close to the target area as possible. Use streight atteam noistles directed straight back and a spray boom no longer than 75% of the

wing apan of the aircles. Do NOT APPLY WHEN AN AIR TEMPERATURE WATERSION EXISTS. SUCH CONDITION CAN EXIST WHEN AIR TEMPERATURES ARE LOWER NEAR THE SURFACE THAN AT HIGHER ALITTUDES. The use of a continuous amoke column at or near site of application is suggested to indicate a possible temperature inversion by layering of the smoke or when dust is suspended in the air.

Drift can occur after application. For example, soil particles having 2,4-D on them may be moved considerable distances by wind storms. The risk of damage from this cause is reduced if treated fields are irrigated or if rais occurs shortly after application.

To avoid injury to desirable plants do not mix DEFY with other agricultural chemicals. Always ensure spray tanks are thoroughly russed and cleaned before and after using this product.

Many states have laws regarding application of phenoxy herbicides. Because DEFY is a 2,4-D phenoxy herbicide, it too is subject to applicable local laws and governmental requirements or restrictions. Consult local regulatory agencies concerning requirements before making applications. Consult your Agnicultural Extension Specialist for advice in selecting treatments which best fit local conditions. Apply this product only as specified on this label.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. READ AND FOLLOW ALL DIRECTIONS AND USE PRECAUTIONS ON THIS LABEL PRIOR TO APPLICATIONS.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Storage: Do not store near fertilizer, seed, insecticides or fungicide.

Pesticide Disposal:

Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved state procedures under Subtitle C of the Resource Conservation and Recovery Act.

Container Disposal:

Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities.

To prepare the spray solution, add about half of the water to the mixing tank, then add DEFY with agitation and finally the balance of the water with continuing agitation. Use only water. Use 5 to 10 gallons of water to fully dissolve one pound of DEFY. Apply sufficient spray solution to ensure uniform coverage, but at least 5 gallons spray solution per agre.

stage -

SELECTIVE WEED CONTROL IN CROPS

Rice: Apply ½ pound of DEFY per acre. Rice plants are sensitive to 2,4-D in early stages of growth. Delay spraying until late stages of tillering, at the first joint development, usually 6 to 9 weeks after crop emergence. Make all treatments well in advance of heading.

Sugarcane: Apply I pound of DEFY per acre as fall and spring drill (or band sprays). Apply 1½ pounds DEFY per acre as broadcast spray immediately after layby.

Corn (Field and Sweet) and Sorghum (Mile): Apply 1/2 to I pound DEFY per acre when corn and sorghum are at least 4 to 10 inches tall. Drop nozzles are recommended after the crop reaches 8 to 10 inches in height to keep spray off foliage. Do not apply to corn from tasseling to dough stage. Do not apply to sorghum during flowering or early dough stage. Do not cultivate within 10 days after spraying while plants are brittle. Injury is more likely to occur when the crop is rapidly growing under high temperature and high soil moisture conditions. Where these conditions prevail, use the low rate of 1/4 pound per acre.

NOTE: Corn and sorghum hybrids vary in tolerance to 2,4-D. Some are easily injured. Spray only varieties known to be tolerant to 2,4-D. Consult the seed company or Agricultural Extension Specialist for this information.

Small Grains not Underseeded with a Legume (Wheat, Oats, and Barley): Apply ¼ to 1½ pounds of DEFY per acre. On spring seeded grains use lower rate. Oats are more sensitive to 2,4-D than other grains and should be sprayed in the spring when well established. Spray after the crop is fully tillered and before the boot state. Do not apply from early boot through milk stage. Do not permit dairy or meat animals to forage or graze treated fields within 2 weeks after treatment. Do not feed treated straw to livestock.

Grass Pastures: Apply 14 to 2 pounds per acre preferably when weeds are small before the bud or early bloom stage. Use the lower rate if annual and biennial weeds are the major problem, the higher rate for perennial weeds. Repeat treatments may be needed for hard-to-kill weeds. Use the same rates after 3 to 4 week interval. Do not use on alfalfa, clover and other legumes. Do not treat newly seeded grass until grass is well established and apply the lower rate. In grass seed fields, make application in spring before head comes into boot. Use 1/4 to 1/4 pounds per acre. In some cases, carpet, buffalo, St. Augustine and dichondra may be injured. Do not graze dairy animals on treated areas within 7 days after treatment.

SELECTIVE WEED CONTROL IN NON-CROP AREAS SUCH AS ALONG HIGHWAYS AND RAILROADS RIGHTS-OF-WAY, DRAINAGE DITCH BANKS AND AROUND FARM BUILDINGS

For spot treatment, apply 1 to 2 pounds per acre in sufficient water to thoroughly wet the weeds. Repeat treatments may be required to kill noxious perennial weeds such as bindweed, whitetop, perennial sow thistle, blue lettuce, bur ragweed, and Canada thistle. Apply on vigorous spring growth to early bloom stage and on fall regrowth.

To control small areas of woody plants, such as willow, honeysuckle, Virginia Creeper, alder and others susceptible to 2,4-D use 2 pounds of DEFY in 100 gallons of water; spray to thoroughly wet plants when in full leaf. Re-treat as necessary for control of regrowth and seedlings. In general, it is better to cut all woody growth and spray suckers when 2 to 4 feet high.

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Folder Bag

Mr. James R. Scott Kalo Agricultural Chemicals, Inc. 4550 W. 109th Street, Suite 222 Overland Park, KS 66211-1383

Dear Er. Scott:

The amendment rejerred to above, submitted in connection with registration under FIFFA is acceptable, provided that you:

- 1) I. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. 'On the bag label, in the "Directions for Use" section, add a statement referring the user to the folder at the bottom of the bag for complete directions for use.
 - h. Also on the bag label, based on the 70° F flash point of your product, the following statement is required under the heading "PPYSICAL OR CHEMICAL MAZARLS.":
- Planable. Keep away from heat and open flame.

 2. Substit five (5) copies of your final printed labeling before you release the product for shigment.
 - A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

Richard P. Mountfort Product Manager (23) Fungicice-Herbicide Branch Registration Division (TE-767)

