

J. R. Fisher
 Vertac Chemical Corporation
 5100 Poplar Avenue
 Suite 2414, Clark Tower
 Memphis, TN 38137

FEB 27 1984

Dear Mr. Fisher:

Subject: Amendment/Dinoseb Label Update
 Vertac Selective Weed Killer
 EPA Registration No. 39511-85
 Vertac General Weed Killer
 EPA Registration No. 39511-86 ✓
 Your Submission Dated February 14, 1984

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

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. In the protective clothing statements:

1. Include wearing of goggles or face shield when contact with concentrate of spray is likely.
2. Delete the reference to pilots and ground spray-rig applicators in the respirator statement. It should read "Wear a respirator jointly approved by...."

b. It is understood that the word POISON will appear in red on a background of distinctly contrasting color.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							

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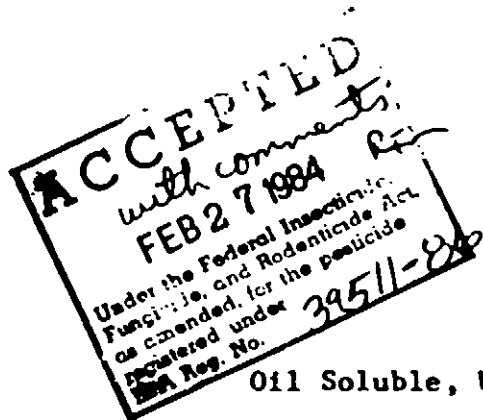
A stamped copy of the label is enclosed for your records.

Sincerely yours,

Richard F. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767)

Enclosure

RD/FHB:DCR-32203:Mountfort:tar:Raven:557-2226:RD-15:2/23/84:Del.3/11/84



VERTAC*

GENERAL

WEED KILLER

Oil Soluble, Water Emulsifier, Contact Herbicide

ACTIVE INGREDIENTS:	Dinoseb (2-sec-butyl-4,6-dinitrophenol)	55.0%
INERT INGREDIENTS:		<u>45.0%</u>
Total		100.0%

Contains 5 pounds of Dinoseb per gallon.

EPA Registration No. 39511-86

EPA Establishment No. **39511-MS-1^A, 39511-CA-1^B

**Superscript used corresponds to letter in Lot Number.

KEEP OUT OF REACH OF CHILDREN

DANGER - POISON - PELIGRO

(Skull and Crossbones)

STATEMENT OF PRACTICAL TREATMENT

Symptoms of Poisoning

Excessive fatigue, sweating, thirst, and fever. If symptoms of poisoning occur from any type of exposure, send for a physician.

If Swallowed: Send for physician. Induce vomiting immediately by giving 2 glasses of water and sticking finger down throat.

If On Skin: Immediately remove all contaminated clothing including shoes. Wash all contaminated areas, including hair, with soap and plenty of water. Do not reuse contaminated clothing or shoes until thoroughly cleaned. Send for physician if symptoms of poisoning develop.

If In Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Send for physician.

Note to Attending Physician: Dinoseb (Dinitro), the active ingredient in this product, is a metabolic stimulant. Treat symptomatically. DO NOT administer atropine, aspirin, or other antipyretics to control fever.

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See side panel for additional precautionary statements

PELIGRO

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

Translation: To the user: If you cannot read English, do not use this product until the label has been fully explained to you.

NET CONTENTS: 113.6 Liters/30 Gallons

MANUFACTURED BY: VERTAC CHEMICAL CORPORATION
5100 Poplar Avenue, Suite 2414
Memphis, Tennessee 38137

(*Vertac, and (Logo) are registered trademarks of Vertac Chemical Corporation.

AGRICULTURAL CHEMICAL

DO NOT ship or store with foods, feeds, drugs, or clothing

For chemical spill, leak, fire or exposure,
call toll free 1-800-424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - POISON

(Fatal if absorbed through skin. May be fatal if swallowed. Contact with eyes causes burns. Contact may cause skin irritation. After handling, wash thoroughly with soap and water before eating or smoking. Avoid breathing spray mist or vapors. 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.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. This product is toxic to wildlife and fish. Birds and other wildlife in treated area may be killed. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate water used by wildlife or aquatic life or water used for domestic or irrigation purposes.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not cut or weld container. To avoid staining carpets, upholstery, etc., keep contaminated clothing and shoes outdoors until cleaned.

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DIRECTIONS FOR USE

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

Mathematical starts.
Wear protective clothing when handling or applying this product, including long pants or coveralls, hat, long-sleeve shirt, and impermeable gloves and boots.

Mixer-loaders should include an apron and full-face shield or goggles when handling or mixing concentrate. Flagmen should be fully protected during spray operations or mechanical Flagmen used. Pilots and ground spray-rig applicators should wear a mask or respirator approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety & Health (NIOSH). Remove any contaminated clothing immediately. This product is readily absorbed through the skin. Do not reuse contaminated clothing until cleaned.

Do not enter treated areas without protective clothing until spray has dried.

(Because certain states may require more restrictive re-entry 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. Workers should not enter treated fields without protective clothing until sprays have dried. Protective clothing must include hat, long-sleeve shirt, long-legged pants or coveralls, impermeable boots, and gloves.

In case of accidental exposure, immediately go to an area where all contaminated clothing can be removed, including shoes. Wash all exposed areas thoroughly with soap and water. (Note: If clothing has been completely saturated by spray or concentrate, it should be removed immediately. Do not wait until you arrive at wash area.) Do not reuse contaminated clothing until thoroughly washed or cleaned.

(When oral warnings are given, they should 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:

Danger! Area treated with Dinoseb (Dinitro). Do not enter without appropriate protective clothing until spray dries. In the event of accidental exposure, immediately go to an area where all contaminated clothing, including shoes, can be removed. If clothing is completely saturated with spray or concentrate, remove immediately. Do not wait until arrival at wash area. Dinitro is quickly absorbed through the skin. Thoroughly wash all exposed areas, including hair, with soap and water. Do not reuse contaminated clothing until washed or cleaned.

STORAGE AND DISPOSAL

Storage: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not store this product near fertilizers, seeds,

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insecticides, or fungicides. Do not store near heat or open flame. Do not store at temperatures below 20°F. If stored for extended periods below 20°F, warm product to 50°F and agitate thoroughly before using. Reclose all partially used containers by thoroughly tightening screw cap. Damaged or leaking containers which cannot be used immediately should be transferred to suitable sound containers and properly marked. Absorb any spills with a suitable clay absorbant and dispose of as indicated under "Pesticide Disposal".

For safety and prevention of unauthorized use, all pesticides should be stored in locked facilities.

To prevent accidental misuse, different pesticides should be stored in separate areas with enough distance between to provide clear identification.

Opened, partially used pesticides should be stored in original labeled containers when possible. When transfer to another container is necessary because of leakage or damage, carefully mark and identify contents of the new container.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. 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: Triple rinse (or equivalent), adding rinsate to spray tank. Offer rinsed container for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

GENERAL INFORMATION

VERTAC General Weed Killer is a non-selective contact herbicide designed for control of broadleaf weeds and grasses in certain crops as recommended on this label and on non-crop areas such as roadsides, railroads, fencerows, around industrial buildings, poyards, and tank farms. VERTAC General Weed Killer, when mixed and used according to directions will control all of the common annual broadleaf weeds and grasses through foliar contact action or through effects on seedlings by temporary residues in soil. Thorough coverage of weed growth or soil surface is essential for best results. The lower recommended rates of VERTAC General Weed Killer and diesel oil or weed oil will give satisfactory control of small annual grasses such as crabgrass, foxtail, and barynyardgrass (watergrass) and of small annual broadleaf weeds such as yellow star thistle, pigweeds, and smartweeds. Larger grasses and broadleaf weeds, such as mallow, dog fennel, and wild carrot, will require the higher recommended rates. This is particularly so when weeds are nearly mature or under drought stress. Satisfactory control of grasses usually requires use of the higher amounts of oil. DOWPONTM grass killer may be combined with VERTAC General Weed Killer to improve kill of emerged grasses in non-crop areas. Perennial weeds will usually require retreatment as new growth develops. Control of weeds will be best in warm weather when weeds are small and growing well. The higher rates of VERTAC General Weed Killer will give some residual control of germinating seedlings if rainfall or irrigation follows spraying within a week after application.

MIXING INSTRUCTIONS

Following are instructions for preparing each type of spray mixture that may be used:

1+. VERTAC General Weed Killer Diluted in Oil Only

(1st) Drain all water from mixing tank. (2nd) Rinse the tank with a small quantity of oil, then drain and discard the rinse. (3rd) Add the desired amount of oil to mixing tank. (4th) With moderate agitation, add required amount of VERTAC General Weed Killer to desired amount of oil. (5th) Mixture is now ready for application. No further agitation is necessary.

11+. VERTAC General Weed Killer-Oil-Water

(1st) Put about 3/4 the desired amount of water in spray tank. (2nd) With vigorous agitation, add required amount of VERTAC General Weed Killer. (3rd) With continued agitation, add the required amount of oil of choice. (4th) Add remainder of water to fill spray tank to desired amount. (5th) Material is now ready to apply. Continue agitation until application is complete.

111. VERTAC General Weed Killer-Agricultural Surfactant-Water

(1st) Add approximately 3/4 of the desired amount of water to the mixing tank. (2nd) With agitation, add required amount of approved surfactant such as Tween-20 or Multi-Film X-77 brands. If foaming is excessive, reduce agitation. (3rd) With continued agitation, add required amount of VERTAC General Weed Killer. (4th) Add remainder of water necessary to bring to desired amount. (5th) Mixture is now ready for application. Continue mild agitation until application is completed.

IV. VERTAC General Weed Killer-DOWPONTM Grass Killer-Agricultural Surfactant-Water

(1st) Add approximately 3/4 of water desired to the mixing tank. (2nd) With mild agitation, add required amount of DOWPONTM. (3rd) Add required amount of approved surfactant (see III). (4th) With continued agitation, add required amount of VERTAC General Weed Killer. (5th) Add remainder of water required to bring to desired spray volume. (6th) Mixture is now ready to apply. Continue mild agitation until application is complete.

⁺ **Note:** Follow the above instructions for mixtures I and II precisely.

Changing procedures may result in very thick invert emulsions which are difficult to apply.

USE DIRECTIONS

NON-CROP USES: VERTAC General Weed Killer is highly effective in controlling broadleaf weeds and unwanted grasses in non-crop areas such as airfields, drainage ditches, industrial buildings and storage sites, around farm buildings, along fence rows, and on rights-of-way for utility installations, railroads, and highways.

For different weed problems, select the appropriate spray mixture from the following table. Spray to thoroughly wet weed growth, using 100 to 200 gallons of spray.

mixture per acre, depending on density and height of the vegetation to be controlled. Re-treat as necessary to maintain satisfactory control. Do not allow livestock to graze on treated areas.

Guide to Preparation of 100 Gallons of Spray Mixture for Non-Crop Use

Broadleaf and/or Grassy Weed Problem	Mixing Procedure (to use)	Ingredients and Amounts for Use				
		VERTAC GENERAL (oz)	DALAPON (oz)	Oil (gal)	Agricultural Surfactant (oz) ¹	Water (gallons) (gal)
Mostly grasses, but a few broadleaf weeds	A ¹	1 to 1 1/2	0	75 to 85	0	75 to 85
Mostly broadleaf weeds, but some grasses also	B ¹	2 to 2 1/2	0	10 to 25	0	80 to 75
Mostly broadleaf weeds, some residual effect on weed seedlings	B ²	3	0	5 to 12	0	85 to 80
Same as above (alternate choice)	B ³	2 1/2 to 3	0	0	2	80
Annual grasses and broadleaf weeds	C ¹	1	5	0	2	80
Perennial grasses and broadleaf weeds	C ²	1 to 2	10 to 15	0	2	80

+Consult corresponding number under "MIXING INSTRUCTIONS" for procedure to follow in preparing spray mixtures.

++When no oil is used, add 2 quarts of approved agricultural surfactant such as TWEEN-20 or MULTI-FILM X-77 brands.

CROP USES: VERTAC General Weed Killer has many uses in the production of agricultural crops when used according to instructions which follow. Observe all directions and follow instructions precisely. Some states issue specific instructions to fit local conditions. Consult your state Agricultural Experiment Station or Extension Service weed control specialists for more detailed information.

ALFALFA: Apply to established stands during the dormant season or after grazing in winter to control winter annual weeds, or immediately after cutting during the growing season before regrowth starts, to control dodder and summer annual weeds. For aerial application, use 1 1/2 to 3 quarts of VERTAC General Weed Killer in 5 to 20 gallons of diesel oil or weed oil per acre. With ground equipment, use 1 1/2 to 3 quarts of VERTAC General Weed Killer plus 10 to 60 gallons of diesel oil or weed oil in water to make 100 gallons of spray mixture. Use at rate of 100 gallons per acre. Note: Do not graze or feed forage from treated areas within 6 weeks after application.

Preharvest Spraying of Alfalfa, Trefoil, Clover, Peas, and Soybeans to Facilitate Harvest of Crops Grown for Planting Seed: Apply 3 to 6 days before harvest. For airplane application, use 2 to 3 pints of VERTAC General Weed Killer in 4 to 10 gallons of diesel oil or weed oil per acre. With ground equipment, use 2 to 3 pints of VERTAC General Weed Killer in 8 to 15 gallons of diesel oil or weed oil for low volume sprays; or with 5 to 15 gallons of either oil in water to make 30 to 50 gallons of spray per acre for high volume sprays. The higher rates and volumes are suggested for use during cool, cloudy weather or where there is heavy foliage growth. Note: Do not allow seed or forage from treatment areas to be used for food or feed purposes. Do not graze new growth in treated areas within 6 weeks after application.

Control of Weeds, Basal Fruit Spurs, and New Cane Growth in Caneberries, including Blackberries, Boysenberries, Loganberries, and raspberries: For weed and cane control, apply as a directed spray in the spring when new canes are 3 to 6 inches tall using 2 quarts VERTAC General Weed Killer plus 1 gallon emulsifiable crop oil mixed with water to make 100 gallons of spray. Apply up to 24 inches high on the canes using 100 to 150 gallons of spray per treated acre. Note: Crop foliage and fruit buds wet by the spray may be killed. For weed control only, the spray should be directed toward the weeds by spraying across the base of the canes and away from

new canes desired for producing fruit next year. After harvest, a spray containing 1 quart VERTAC General Weed Killer and 1 gallon emulsifiable crop oil per 100 gallons of spray can be applied to the lower 18 inches of canes at volumes of 100 to 150 gallons per acre as needed to control weeds and undesired fruiting spurs. Make no more than 4 applications per season for weed or cane control. Note: Do not apply within 30 days before harvest.

Weed Control in Grapes and Bush Fruits including Blueberries, Currants, and Gooseberries: Use 1 to 2 quarts of VERTAC General Weed Killer plus 10 to 20 gallons of diesel oil or weed oil with water to make 100 gallons of spray and apply at the rate of 100 to 150 gallons per treated acre. Apply when weeds are growing well, but before they are 6 inches tall. Use only as a directed spray and apply in such a way as to avoid contacting crop foliage blossoms or fruit clusters. Direct spray across the base of crop plant stems to treat weeds and soil. Apply three or four times per year as needed. Note: Use only on plantings 2 years or older. Do not treat within 30 days before harvest.

Control of Broadleaf Weeds and Grasses in Fruit Orchards and Citrus and Nut Groves: Use 1 to 8 quarts of VERTAC General Weed Killer with 2 to 20 gallons of diesel oil or weed oil with enough water to make 100 gallons of spray and apply as a "floor" spray under the following crop plants: Almonds, apples, apricots, cherries, citrus, dates, figs, filberts, nectarines, olives, peaches, pears, pecans, plums(prunes), and walnuts.

Use one of the spray mixtures specified in the following table: The mixture of choice will depend upon nature of the Vegetation to be controlled, availability of the materials needed, and the economic factors involved in their use. Consult State Agricultural Experiment Station and Extension Service Weed Control Specialists regarding local recommendations.

Gallons Oil to Use for 100 Gallons Spray when VERTAC General Used at Per Acre Rates of:				
Period of Fruit and Nut Trees in Planting	1 quart	2 quarts	4 quarts	8 quarts
1st year	5	4	3	2
2nd year	10	5	5	3
3rd year	15	10	5	5
4th year and longer	20	15	10	5

Apply uniformly to the ground cover only, using coarse spray directed across the lower 6 to 12 inches of the tree trunks and at a rate to give 100 gallons of spray mixture per treated acre. On Granny Smith or other green bark trees, do not allow spray to contact bark of new plantings until after second season. Use directed sprays with shields as necessary. Wet thoroughly all weed foliage and bare soil areas where residual control is desired. Avoid spraying crop foliage, fruits, or nuts. Make 3 to 4 applications per year as needed. Best residual control of weed seedlings will result when the application is followed within a few days by rain or

surface irrigation (flood or sprinkler). Note: Destroy all fruit accidentally sprayed. Do not apply within 30 days before harvest. Do not allow livestock to graze on treated ground cover.

Killing Potato Vines: Spray 10 to 20 days before harvest. The concentration of the spray and the amount to use per acre are determined by vigor of the vines, degree of kill desired, and weather conditions at time of application. Use the higher rate and higher spray volume during cool, cloudy weather or where potato vine growth is especially heavy. Thorough coverage of all foliage and stems is essential for good results. With heavy vine growth, split applications usually are more effective than single sprays: use 1/2 the suggested rate and repeat the application 5 to 7 days later, again using the 1/2 dosage. To assure good wetting of potato foliage, add diesel oil, emulsifier crop oil, or an approved agricultural surfactant such as TWEEN-20 or MULTI-FILM X-77 brands. Relative amounts of VERTAC General Weed Killer, oil or surfactant are shown in the following table:

Type of Application	VERTAC General pt/Acre	Amount and Kind of Diluent/Acre
Aerial (3 to 5 gallons total spray per acre)	2 to 3	3 to 5 gallons of diesel oil or 1 to 2 gallons of emulsifiable crop oil plus water or 1 quart of agricultural surfactant ⁺ plus water
Ground (25 to 40 gallons total spray per acre)	2 to 4	5 gallons of diesel oil plus water ⁺⁺ or 1 to 2 gallons of emulsifiable crop oil plus water or 1 quart of agricultural surfactant ⁺ plus water

⁺Use approved agricultural surfactant such as TWEEN-20 or MULTI-FILM X-77 brands.

⁺⁺Follow procedure under "MIXING INSTRUCTIONS" to ensure good emulsification.

Note: Browning of the vascular ring of potato tubers sometimes occurs when vines are killed rapidly either by frost, mechanically, or chemically. Vascular browning occurs most frequently during warm weather when soil is dry. Under these conditions, use lowest recommended dosage or split applications. Do not spray exposed tubers nor graze treated areas.

OTHER USES

Consult supplementary labeling available from your dealer or from the Agricultural Division, Vertac Chemical Corporation, 24th Floor, 5100 Poplar Avenue, Memphis, TN 38137 for registered use directions for VERTAC General Weed Killer for preplant or preemergence weed control and for use on hops.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

DOT SHIPPING FORMATION

Proper Shipping Name

**Substituted Nitrophenol Pesticide, Liquid, N.O.S.
(Contains Toluene) UN 2780**

DOT Labels

(Poison)

(Flammable Liquid)