UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

19/11

AUR 1 4 1999.

Rhonda Hotop Sandoz Crop Protection Corporation 1300 E. Touhy Avenue Des Plaines, IL 60018

Dear Ms. Hotop:

Subject: Revised Label Text - Addition of Non-Irrigation

Ditchbanks in Directions For Use

Banvel 720 Herbicide

EPA Registration No. 55947-20

Your Submission Dated July 25, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

1) Under the Statement of Practical Treatment, reinstate the following statement as per the label accepted on November 8, 1989:

"If swallowed, drink 1 or 2 glasses of water and induce vomiting by sticking finger down back of throat. Never induce vomiting or give anything by mouth to an unconscious person."

- 2) Under the Precautionary Statements, add the statement "When handling this product, wear chemical resistant gloves."
- 3) Page 3 of the Directions For Use booklet contains the statement "Do not graze dairy animals on treated areas within 7 days after application." With this statement, add the following additional precautions:

"Do not cut grass for hay in treated areas within 30 days after application. Remove meat animals from treated areas 3 days prior to slaughter."

	CONCURRENCES	
SYMBOL H7505C		
BURNAME ND. KENNY		1
DATE 4/12/91		
EPA Ferm 1320-1 (12-70)	AT.S.GPO:1989-624-485/10186	OFFICIAL FILE COPY

A stamped copy is enclosed for your records. Please submit five (5) final printed copies for the referenced label, incorporating the above changes.

Sincerely yours,

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

Enclosure

	CONCURRENCES	
SYMBOL H7505C		
SURNAME D. KENNY		
DATE \$ 8/12/91		
EPA Ferm 1320-1 (12-70)	#II.S.GPO:1989-624-485/10186	OFFICIAL FILE COPY

(Container Label)

BANVEL® 720 Herbicide

Water Soulbes Maxibiras Thereade For Control of Brush And Broad Eaf-Weeds on Rights-Of-Way, Forest Brush, Fence Rows, Non-Irrigation Ditchbanks, Wasteland, and Similar Noncropland Areas

Active Ingredients:

Dimethylamine salt of dicamba

TOTAL.... 100.00%

SHAKE WELL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side panel for additional precautionary statements

EPA Reg. No. 55947-20	EPA Est. No. 55947-TX-1
Net Contents:	Sandoz Crop Protection Corporation
ACSTRIPMEN	Des Plaines, IL 60018

ACCEPTED

With COMMENCES

BE EPA Letter Dated:

倒近 1 × 1991

Once the Follow Insertice Purple to the Follow In the positive management the positive registered under LPA Reg. N. 5. 5. 9. 4. 7. 2. 0.

^{&#}x27;This product contains 10.6% 3,6-dichloro-o-anisic acid (dicamba) or 1 lb. per gallon (120 g/L).

"This product contains 20.4% 2,4-dichlorophenoxyacetic acid (2,4-D) or 1.9 lbs. per gallon (228 g/L).

"Isomer specific by AOAC method 6.D01-5.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid the state of a wist. Avoid contact with skin, eyes, or clothing. In case of contact, wash exposed skin with plenty of soap and water; for eyes flush with water for 15 minutes and get medical attention.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Apply this product only as directed on label.

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 pest/cide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

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.

Refer to the DIRECTIONS FOR USE booklet attached to this container for proper use directions and additional precautionary statements.

STORAGE AND DISPOSAL

PROHIBITIONS

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

STORACE

Store in original container in a well-ventilated area separately

from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust, or equivalent material for disposal.

PESTICIDE DISPOSAL

Pesticide wastes are toxic. Triple rinse pesticide from containers and use rinsates in the pesticide application. Improper disposal of excess pesticide, spray mixture, or rinsate, is a violation of Federal Law ans 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

Plastic or Metal: After triple rinsing (or equivalent), offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, such as burning of plastic containers. If burned, stay out of smoke.

LIMITATION OF WARRANTY AND LIMITATION OF LIABILITY

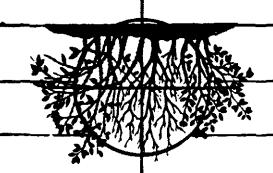
NOTICE: Read this Limitation of Warranty and Limitation of Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded. It is impossible to eliminate all risks inherently associated with the use of this product. injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Sandoz or seller. All such risks shall be assumed by buyer or user. Sandoz warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, under normal use conditions, subject to the risks described above. Sandor makes other express or implied warranty of fitness or merchantability or any other express or implied warranty. event shall Sandoz or seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. The exclusive remedy of the user or buyer, and the exclusive liability of Sandos or seller for any and all claims, losses, injuries or damages (including claims based on breach of warranty, contract, negligence, tort, strict liability or otherwise) resulting from the use or handling of this product, shall be the return of the purchase price of the product or, at the election of Sandos or seller, the replacement of the product.

Sandoz and seller offer this product, and buyer and user accept it, subject to the foregoing limitations of warranty and limitation of liability, which may not be modified by any oral or written agreement.

R.H. 7/25/91

E.P.A. Reg. No. 55947-20

WATER BOLUBLE INDUSTRIAL WATER BOLUBLE HOW SHILDS HOW SHILDS CONTROL AS JOACH RESEARCH WEST WATER WATE



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IT IS A YIOLATION OF PEDENAL LAW TO USE THES PRODUCT IN A MANUEL INCONSISTENT WITH ITS LABELING

DINECTIONS FOR USE

HEBBICIDE

Banvel 720

Banvel 720

HERBICIDE

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF THE PESTICIDE APPLICATION.

NOTICE: READ "LIMITED WARRANTY AND LIABILITY"
ON THE CONTAINER BEFORE BUYING OR USING. IF TERMS ARE NOT ACCEPTABLE, RETURN AT ONCE UNOPERED.



PROSPER WITH PESTICIDES BY USING THEM PROPERLY! READ AND FOLLOW LABEL DIRECTIONS



EAN BOZ CROP PROTECTION CORPORATION

0726200-40-AD

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BEFORE USING BAINDUSTRIAL HERBIN PRECAUTIONS APP

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The following directions apply Do not contaminate irrigation of Do not apply this product this

SENSITIVE CNOP PRECAU BANVEL 720 Herbickle may particularly beans, colton, flor polations, soybeans, sunflow plants when contacting their most sensitive to BANVEL 7 growing stage, FOLLOW THE USING BANVEL 720 HERBI

Do not treat areas where all soil or surface washing may with the roots of destrable pla

Avoid making application who currents to areas where sens growing. Always make applications

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order to determine the direction an adequate buffer zone betv sensitive plants. Coarse spray

Do not use serial equipmen sensitive crops and plants are Broadcast applications of B seedings being grown as a cri result in injury.

Select nozzles designed to particles. Drift control agents spray particles may be used.

Do not graze delry animali application.

To avoid injury to destrable plu Herbicide should be thorou CLEANING SPRAY EQUIPM apply any other chemicals.

Consult your local or state aut and advice concerning these:

BANVEL 720 Water Schubte is Weed Control is recommend: highway, pipeline), nonselectropreparation), ience rows west

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MIXING AND APPLICATION

BANVEL 720 Herbicide is a water-soluble formulation which can be applied using water or all/water emulsions as the carrier. Herbicide adjuvents or other spray additives (emulsifiers, surfactants, wetting agents, drift control agents, or penetrants) may be used for wetting, penetration, or drift control. Fleed and tother all use recommendations and precautions on the label(s) of product(s) used. A COMPATIBILITY TEST (Page 12 of this booklet) should be made prior to tank mixing.

BANVEL 720 Herbicide may be applied with ground or earlif equipment for broadcast treatments, or with handgun, beckpack, or similar types of equipment for treatment of individual clumps or small areas (spot treatments)

NOTE: To prepare cil/water emulsions, helf fill apray tank with water. Add a suitable emulsifier. Then, with constant agitation, slowly add the appropriate amount of herbicide followed by the necessary of (or slowly add a premis of emulsifier and oil). Finally, fill the rest of the tank with water. Meintain vigorous agitation during apray operation to prevent oil and water from forming superate layers.

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SPECIES CONTROLLED

When used as directed, BANVEL 720 Herbicide will control or suppress many herbaceous broadlest weeds (annual, blannial, and perennial) as well as many unwanted woody plant and vine species. Species controlled include:

ANNUALS

Buckwheel, Wild Carpetweed Chickweed Clover Cocklebur Darsy, English Hembil Knewel Lumbsqueriers Momingglory Mustard Pigweed Purstane Regweed Smartweed Velvetteet

BIENWALS

Regwort, Tansy

Bindweed, Fletd

Thiefle, Musik

PERENMALS

Cenot, Wild
(73een Annie & Luce)
Cock, Curly
Cockmant
Knameed, Dustier

Milkweed Regweed, Perevirlal Sorret, Sheep Spurge, Leefy Thistle, Carecte Toedles, Dalmetten

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WOODY BRUSH AND VINES

Alder Ash Aspen Resource Beach Blitch Blackbarry Cherry Creeper, Virginia Creceptabush Cucumbertree Dogwood Ekterberry Fim Gum Hawthern Hembook Honovsuckle tvy. Polson Kintra Locust Maple $\ddot{0}$ Olive, Russlar

Persimmon Pine Plum. Whit **Popler** Puncturavine Respherry Redcedur, Eastern Redvine Rose, Muttiflore Secebrush Sessetas Schimus /Florida Holly. Brazil Pappertree Christmas-berry) Serviceberry Snowberry Serve Summer Sycamore Trumpotcreaper Waxmyrtle Willow Witchhazel Yaupon

* Suppression

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DIRECTIONS FOR USE

DIVISE TIONS FOR USE

Pagardiese of the species to be controlled, apray volumes should be high shough to allow for good agray coverage. Make applications wher weed, and brush are actively growing. The addition of surfactants can increase control. Blemiate are best controlled when treated in the rosettu stage. Regrowth may occur on relatent species. Petreetments may be made a needed; however, do not exceed a total of 6 gallone (6 fbs. 6.1. dicambe + 12 fbs. 6.1. 2,4-D) of BARIVEL 720 Herbidde per treated acre during a growing season. To control additional weed species, BARIVEL 720 Herbidde per treated acre during a growing season. To control additional weed species, BARIVEL 720 Herbidde may be tank mixed with any of the products fated on pages 10-11.

NERBACEOUS BROADLEAF WEED CONTROL: Apply 1 to 4 quarte BANVEL 720 Herbicide in 20 to 100 gallons of water par treated scre. 1 to 2 quarts of BANVEL 720 Herbicide is recommended for annuals, 2 to / quarts for blanniels and easy-to-kill parenniels, and 4 quarts for established perenniels. Do not apply more than 3 gallons of provinct parented acre.

BRUSH AND VINE CONTROL—High Volume Felter Spot Auplice None: Min 1 to 3 gallone of BANVEL 720 Horbicide in enough visitor to make 100 gallons of spray mix. Spray volume applied will deposit on the size and density of the brush to be treated, but do not apply more then 3 gallone of product per treated acre. Direct the spray to freet all rollege, stems, and root college to wet.

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PION K. GRAPHIC SERVICES, LTD. DISC 181 — File No. 86 12-08-87 - en/k. Hel.-1, Hel.Bid.-2(114) Job No. 1405 - BANVEL 720 Booklet BRUSH AND VINE CONTROL ~ Broadcast Applications with Ground Equipment: Apply 1 to 3 gallons BANVEL 720 Herbicide in 20 to 100 gallons of water per freeted scre. Spray volume applied will depend on the size and density of the brush to be treated, but do not apply more than 3 gallons to groduct per treated acre. Spray all follage, stems, and root collars to wet.

AERIAL APPLICATIONS: Aeriel applications may be made to control either herbeceous or woody plants. Apply 1 to 4 querts BANVEL 720 Herbicide (for herbeceous weeds) or 1 to 3 gallons BANVEL 720 Herbicide (for woody brush and vines) in 5 to 40 gallons of water per treated acre. Coverage is important, so increase spray volume when treating dense stands of brush or weeds. Do not apply more than 3 gallons of product per treated acre.

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TANK MIX TREATMENTS

READ AND FOLLOW THE LABEL OF EACH TANK MIX PRODUCT USED FOR PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, AND OTHER RESTRICTIONS. For broader spectrum control, BANYEL 720 Herbicide may be lank mised with one or more of the following herbicides for noncropland uses (e.g. rethoad, highway, pipeline, etc.) including lower management applications, if permitted by product labeling (e.g. 2,4-0). Add water to the spray tank prior to the addition of the tank mix products. Do not premix concentrates.

Herbicide	(fibs. a.l./rested acre)
Amitrof'	1.8 to 8.0
Asulam (Asulox*)	2.92 to 6.68
Atratol	4.77 to 39.98
Bromacii (Hyvar*)	1.6 to 24.0
· Chlorifurecol (Maintain*)	2.0 to 3.0
Chlorauffuron (Tetar*)	0.1875 to 2.25 oz.***
Delapon	4.25 to 12.75
Dicambe (Servel*)	0.25 to 8.0***
Diquel	0.5 to 1.0
Diuron (Kermex*)	4.0 to 48.0
Fenac (Fenetrote)	4.5 to 18.0
Fosamine ammonium	6.0 to 12.0
(Krenite*)	0.0-0-12.0
Glyphosate (Roundup*)	0.75 to 3.75
Hexazinone (Velper*)	0.675 to 10.8
· Imazapyr** (Arsenal*)	0.5 to 1.5
Limitar	0.625
Maleic hydrazide	2.25 to 4.5
(Floval Sto-Gross)	2,23104.9
Meffuldide (Emberk*)	0.25 to 1.0
MSMA	1.0 to 2.475
Peracuel*	0.5
Pictorem* (Tordon*)	2.0 to 3.0
Simazine* (Princep*)	
Annual to things 1	4.8 to 40.0

Sulfameturon methy! (Oust*)	0.75 to 9.0 oz***
Rebuthiuron (Spike*) Trictopyr (Gerlon*)	1.0 to 16.0 0.75 to 12.0
2,4-0	0.75 to 12.0
2,4-OP	0.51o 11.1

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Due to variations that may occur in formulated products and specific use ingredients (e.g. water supplies), a COMPATIBILITY TEST as described on page 12 of this booktet is recommended prior to actual tank mixing.

- * Restricted use posticions limited to certified applicators.
- ** Imatepyr is the proposed common name for Arsensi. Limit does not have a common name.
- *** Totar = 0.1875 to 2.25 oz. a.i./A (0.25 to 3.0 oz. product/A)
 Oust = 0.75 to 9.0 oz. a.i./A (1.0 to 12.0 oz. product/A)
- **** Do not exceed a total of 8 fbs. a.i. dicamba per treeted acre per growing season. (BANVEL 720 Herbicide contains 1 fb. a.i. dicamba per gefon).
- """
 Use of extremely hard water (900 ppm) may cause this product to form a precipitate when used in a tank mix with BANVEL 720 Herbicide. Do not exceed 16 bs. total 2,4-D acid equivalent per treated acre per growing season. (BANVEL 720 Herbicide contrins the equivalent of 1.9 bs./gal. 2,4-D acid).
 - 1 Not registered for use in California



Before mixing in the apray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities (see following table).

Amount of Harbicide to Add to One Pint of Spray certier (Assuming Volume is 25 Gellone per Acre)

HERBICIDE RATE LEVEL FORMULATIONS PER ACRE TEASPOONS Dry 1 b. 1 1/2 Liquid 1 pt. 1/2

If herbicide(s) do not ball-up or form fishes, studge, gets, oily films or layers, or other precipitates, then the tested our-ponents are compatible. Usually incompatibility in any of the above described forms will occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recummended. Perun the above COMPATIBILITY TEST with a suitable compatibility agent (% teespoon is equivalent to 2 pints per 100 gallons of apray solution).

PROCEDURE FOR CLEANING SPRAY EQUIPMENT

The steps field below are suggested for thorough cleaning of spray equipment following applications of BANVEL 720 Herbicide or tank mixes of BANVEL 720 Herbicide plus 2,4-D amine.

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- Hose down thoroughly the helde as well as outside surfaces of equipment while filling the spray tank helf full of water. Flush by operating sprayer until the system is purged of the rinse water.
- 2) Fill tank with water white adding it quart of household anymorite for every 25 gallons of water. Operate the pump to circulate the ammonia solution through the sprayer system for 15 to 20 minutes and discharge a small amount of the ammonia solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 3) Flush the solution out of the spray tank through the boom.
- Remove the nozzles and screens and flush the system with two full tanks of water.

The stage listed below are suggested for thorough cleaning of spray equipment used to apply BANVEL 720 Herbicide as a tenk mix with wetable powders (WP), emulsifiable concentrates (EC), or other types of water-dispersible formulations. BANVEL 720 Herbicide britk mixes with water-dispersible formulations require the use of a water-detergent rinee.

- 5) Correctate step 1.
- 6) Fill tenk with water while adding 2 lbs, of detergent for every 40 gallons of water. Operate the pump to circulate the detergent solution through the boom an. nezzles. Let the solution stand for several hours, preferably every, jet.
- 7) Flush the detergent actuation out of the apray tank through the boom.
- 3) Pictural stem 1, and follow with stape 2,3, and 4.

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REGISTERED TRADEMARKS

Arsenal® is a Registered Trademark of American Cyanemid Company. Princers* is a Registered Trademark of Clos-Gelgy Corporation. Garton® and Tordon® are Registered Trademarks of Dow Chemical Company. Hover*, Kermex*, Krenite*, Quat*, Teler*, and Velper* are Registered Trademerks of E.I. duPont de Nemours & Co., Incorporated Spike* is a Registered Trademark of Elanco Products Company. Embark® is a Registered Trademark of 3M. Limit* and Roundup* are Registered Trademarks of Monsato Agricultural Products Company. Asulox® is a Registered Trademark of Phone-Poulenc Chamical Company. Fenetrol® is a Registered Trademark of Union Carbide Agricultural Products Co., Incorporated Royal Sto-Groff is a Registered Trademark of Univoyal, Incorporated Maintain* is a Registered Trademark of U.S. Borax & Chemical Corporation. Banvet[®] is a Registered Trademark of Sandoz Ltd.

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NOTES

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