

Reg # 55947 -28

PM-25

File
1936



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 11 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Nancy Huebl
SANDOZ AGRO INC.
1300 East Touhy Ave.
Des Plaines, IL 60018

Subject: Label Amendment Submission of 08/03/93 in Response to PR Notice 93-7
EPA Reg. No. 55947-28
BANVEL II HERBICIDE

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

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

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
Compliance Division, (7203)
Worker Protection Notification
Office of Compliance Monitoring
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

AND

- WITHIN one year from date of this acceptance.

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

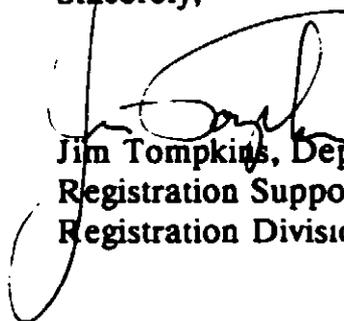
Document Processing Desk (FIN-LABEL)
 Office of Pesticide Programs (7505C)
 U.S. Environmental Protection Agency
 401 M Street, SW
 Washington, D.C. 20460-0001

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

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

Sincerely,



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

Attachment

cc: Office of Compliance Monitoring

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Nancy Huebl
SANDOZ AGRO INC
1300 EAST TOUHY AVE
DES PLAINES IL 60018

Comment for: EPA Reg Nr.55947-28
BANVEL II HERBICIDE

The following specific comments pertain to your WPS
labeling submission concerning the product
cited above:

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

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CONTAINER LABEL

Banvel SGF[®] Herbicide
Small Grains/ Fallow

ACCEPTED
with COMMENTS
in EPA Letter Dated

MAR 11 1984

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

ACTIVE INGREDIENT:

Sodium salt of dicamba (3,6-dichloro-o-anisic acid)* 23.15% 55947-28

INERT INGREDIENTS: 76.85%

TOTAL 100.00%

*This product contains 21.06% 3,6-dichloro-o-anisic acid (dicamba) or 2 pounds per gallon (24) g/l).

KEEP OUT OF REACH OF CHILDREN

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

SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Reg. No. 55947-28
EPA Est. No. 55947-TX-1

Net Contents:
SANDOZ AGRO, Inc.,
Des Plaines, IL 60018

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Avoid breathing spray mist. Wash thoroughly after handling. In case of contact, wash skin with soap and water; for eyes, flush with water for 15 minutes and get medical attention.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective Eyewear

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

Engineering controls statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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ENVIRONMENTAL HAZARDS

Keep out of lakes, streams or ponds. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwaters. Apply this product only as directed on label.

STORAGE AND DISPOSAL

PROHIBITIONS

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

STORAGE

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

Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

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.

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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. Crop 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. **Sandoz makes no other express or implied warranty of fitness or of merchantability or any other express or implied warranty.**

In no 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 Sandoz 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 Sandoz 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.

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DIRECTIONS FOR USE

Banvel SGF[®] Herbicide

Small Grains/ Fallow

ACTIVE INGREDIENT:

Sodium salt of dicamba (3,6-dichloro-o-anisic acid)* 23.15%

INERT INGREDIENTS: 76.85%

TOTAL 100.00%

*This product contains 21.06% 3,6-dichloro-o-anisic acid (dicamba) or 2 pounds per gallon (240 g/l).

KEEP OUT OF REACH OF CHILDREN

WARNING

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

**SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS**

**EPA Reg. No. 55947-28
EPA Est. No. 55947-TX-1**

**Net Contents:
SANDOZ AGRO, Inc.,
Des Plaines, IL 60018**

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Avoid breathing spray mist. Wash thoroughly after handling. In case of contact, wash skin with soap and water; for eyes, flush with water for 15 minutes and get medical attention.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear

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

Engineering controls statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Keep out of lakes, streams or ponds. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwaters. Apply this product only as directed on label.

STORAGE AND DISPOSAL

PROHIBITIONS

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

STORAGE

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

Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

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.

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 in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Do not apply this product through any type of irrigation system.

For additional copies of the Specimen Label, write to the manufacturer.

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**BEFORE USING BANVEL SGF
READ AND FOLLOW THE PRECAUTIONS
IMPORTANT**

The following directions apply to all uses of BANVEL SGF: Additional precautions and restrictions will be found in each specific use section.

Do not contaminate irrigation ditches or water used for domestic purposes.

SENSITIVE CROP PRECAUTIONS

BANVEL SGF may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes and other broadleaf plants when contacting their roots, stems or foliage. These plants are most sensitive to BANVEL SGF during their development or growing stage. FOLLOW THE PRECAUTIONS LISTED BELOW WHEN USING BANVEL SGF.

- Do not treat areas where either possible downward movement into the soil or surface washing may cause contact of BANVEL SGF with the roots of desirable plants such as trees and shrubs.
- Avoid making applications when spray particles may be carried by air currents to areas where sensitive crops and plants are growing. Do not spray near sensitive plants if wind is gusty or in excess of 5 mph and moving in the direction of nearby sensitive crops. However, always make applications when there is some air movement to determine the direction and distance of possible spray drift. Leave an adequate buffer zone between area to be treated and sensitive plants. Coarse sprays are less likely to drift out of the target area than fine sprays. Agriculturally approved drift-reducing additives may be used.
- Do not apply BANVEL SGF in the vicinity of sensitive crops when the temperature on the day of application is expected to exceed 85°F as drift is more likely to occur.
- Do not use aerial equipment to apply BANVEL SGF when sensitive crops and plants are growing in the vicinity of the area to be treated.
- To avoid injury to desirable plants, equipment used to apply BANVEL SGF should be thoroughly cleaned (see PROCEDURE FOR CLEANING SPRAY EQUIPMENT) before reusing to apply any other chemicals.

All crop uses of BANVEL SGF are intended for a normal growing interval between planting and harvest. No crop rotation restrictions exist if normal harvest of treated crop has occurred. If this interval is shortened, such as in cover crops that will be plowed under, do not follow up with the planting of a sensitive crop.

Crops growing under stress conditions such as, but not limited to, drought, excessive

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moisture, poor fertility, frost or foliar damage due to hail, wind or insects, or when the crop is not actively growing, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

Consult your local or state authorities for possible application restrictions and advice concerning these and other special local use situations. Tank mix recommendations are for use only in states where the tank mix product and application site are registered.

Do not apply this product through any type of irrigation system.

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PROCEDURE FOR CLEANING SPRAY EQUIPMENT

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

- 1) Hose down thoroughly the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Flush by operating sprayer until the system is purged of the rinse water.
- 2) Fill tank with water while adding 1 quart of household ammonia 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.
- 4) Remove the nozzles and screens and flush the system with two full tanks of water.

The steps listed below are suggested for thorough cleaning of spray equipment used to apply BANVEL SGF as a tank mix with wettable powders (WP) emulsifiable concentrates (EC), or other types of water-dispersible formulations. BANVEL SGF tank mixes with water-dispersible formulations require the use of a water/detergent rinse.

- 5) Complete step 1.
- 6) Fill tank with water while adding 2 lbs. of detergent for every 40 gallons of water. Operate the pump to circulate the detergent solution through the sprayer system for 5 to 10 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 7) Flush the detergent solution out of the spray tank through the boom.
- 8) Repeat step 1, and follow with steps 2, 3, and 4.

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MIXING AND APPLICATION

UNLESS OTHERWISE SPECIFIED UNDER THE INDIVIDUAL USE HEADINGS OF THIS BOOKLET, THE FOLLOWING DIRECTIONS APPLY TO ALL CROP AND NON-CROP USES OF BANVEL SGF. REFER TO INDIVIDUAL USE SECTIONS FOR ADDITIONAL PRECAUTIONS, RESTRICTIONS, APPLICATION RATES AND TIMINGS.

BANVEL SGF is a water-soluble formulation that can be applied using water or sprayable fluid fertilizer as the carrier. If a fluid fertilizer is to be used, a compatibility test (see COMPATIBILITY TEST) should be made prior to tank mixing.

BANVEL SGF should be mixed with other products only in the spray tank or shuttle in dilute form. BANVEL SGF product concentrate should not be mixed directly with other product concentrates.

Ground or aerial application equipment which will give good spray coverage of weed foliage should be used. **HOWEVER, DO NOT USE AERIAL APPLICATION EQUIPMENT IF SENSITIVE CROPS ARE GROWING IN THE VICINITY OF THE AREA TO BE TREATED.**

Apply 3 to 50 gallons of diluted spray per treated acre when using ground application equipment, or 1 to 10 gallons of diluted spray per treated acre when using aerial application equipment. Use the higher level of the listed spray volumes when treating dense or tall vegetation. Use coarse sprays.

Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

Avoid disturbing (e.g. cultivating or mowing) treated areas for at least 7 days following application.

Sulfonylurea resistant weeds may not be controlled by tank mixes of BANVEL SGF and a sulfonylurea. Refer to the BANVEL SGF tank mix sections for alternative tank mixes.

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COMPATIBILITY TEST

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

Amount of Component to Add to One Pint of Spray Carrier
(Assuming Volume is 25 Gallons per Acre)

COMPONENT FORMULATIONS	RATE PER ACRE	LEVEL TEASPOONS
Dry	1 lb.	1½
Liquid	1 pt.	½

If component(s) do not ball-up or form flakes, sludge, gels, oily films or layers, or other precipitates, then the tested spray mix is 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 recommended. Rerun the above COMPATIBILITY TEST with a suitable compatibility agent (1/4 teaspoon is equivalent to 2 pints per 100 gallons of fluid fertilizer).

**SMALL GRAINS
(NOT UNDERSEEDED TO LEGUMES)
IMPORTANT**

Observe all precautions. Read and follow cleaning, mixing and application instructions.

If small grains are grown only for pasture or hay, the following restrictions apply:

- Remove meat animals from treated areas 30 days prior to slaughter.
- There is no waiting period between treatment and grazing for non-lactating animals.
- Treated areas may not be grazed by lactating dairy animals before 7 days after treatment.
- Do not harvest hay from treated areas before 37 days after treatment.

NOTE: Observe all precautions and restrictions on the labels of products used in tank mix treatments.

WEEDS CONTROLLED

BANVEL SGF AND BANVEL SGF tank mixes, when applied at recommended rates, will control annual broadleaf weeds commonly found in small grains and will reduce competition from established perennial broadleaf weeds and control their seedlings.

Buckwheat, Tartary
 Buckwheat, Wild
 Chamomile, Corn
 Cockle, Corn
 Cockle, Cow
 Cocklebur, Common
 Knawel (German Moss)
 Knotweed
 Kochia
 Ladysthumb
 Lambsquarters,
 Common
 Mallow, Common
 Mustard, Tansy
 Nightshade, Black

Pigweed, Redroot
 (Carelessweed)
 Pigweed, Rough
 Pigweed, Tumble
 Purslane, Common
 Ragweed, Common
 Ragweed, Giant
 (Buffaloweed)
 Smartweed, Green
 Smartweed, Pennsylvania
 Sowthistle, Annual
 Sunflower, Common
 Sunflower, Volunteer
 Thistle, Russian
 Velvetleaf
 (Wild)

BANVEL SGF Plus 2,4-D or BANVEL SGF Plus MCPA tank mixes when applied in accordance with this label will control the following listed weeds in addition to the weeds listed above.

Carpetweed
Chickweed, Common
Dragonhead, American
Hempnettle
Lettuce, Prickly
Mayweed (Dogfennel)
Mustards, Annual
Pennycress, Field
(Fanweed, Frenchweed,
Stinkweed)

Pineappleweed
Puncturevine
Radish, Wild
Salsify (Goatsbeard)
Shepherdspurse
Starthistle, Yellow
Vetch

BANVEL SGF Plus Bromoxynil tank mix when used in accordance with this label will control the following listed weeds in addition to weeds listed above.

Alkanet
Bedstraw, Catchweed
Chervil, Bur
Cornflower
(Bachelorbutton)
Falseflax, smallseeded
Fiddleneck, (Tarweed)
Fixweed
Fumitory
Gromwell, Corn
Groundsel
Henbit
Jacobs Ladder

Lettuce, Miners
Mayweed
Mustard, Blue (Purple)
Mustard, Wild
Mustard, Tumble
(Jim Hill)
Pennycress, Field
(Fanweed, Frenchweed,
Stinkweed)
Pepperweed, Peppergrass
Rocket, London
Rockey, Yellow
Shepherdspurse

BANVEL SGF AND BANVEL SGF tank mixes will reduce competition from established PERENNIAL broadleaf weeds and control their seedlings, including:

Bindweed, Field
Dandelion, Common
Dock, Curly
Nightshade, Silverleaf
(White Horsenettle)
Plantain, Broadleaf

Sorrel, Red
(Sheep Sorrel)
Sowthistle
Thistle, Canada
Yarrow, Common

THE SPECIAL USE TANK MIX FOR FALL SEEDED WHEAT ONLY allows a higher rate of 2,4-D or MCPA to be used in combination with BANVEL SGF. This tank mix treatment may be used for improved performance of difficult-to-control weeds including:

*Fiddleneck (Tarweed)
Garlic, Wild

Gromwell
*Onion, Wild

Consult your state Agricultural Experiment Station or Extension Service weed specialists for advice concerning these and other special local weed problems.

- * Weeds that develop in the Fall may not be controlled by a Spring application of the SPECIAL USE TANK MIX. For control of these weeds a Fall application may be necessary. See the BETWEEN CROPPING APPLICATIONS (BCA) section for additional information.

RATES AND TIMINGS

Application of BANVEL SGF may be made before, during or after planting to emerged and actively growing weeds. See specific crop for timing restrictions. For best performance, make application when weeds are in the 2-3 leaf stage and rosettes are less than 2 inches across. Use the higher level of listed rate ranges when treating more mature weeds or dense vegetative growth. Surfactant should not be used when applying BANVEL SGF on small grains except when tank mixing with registered sulfonylurea small grain herbicides such as Glean[®] (chlorsulfuron), Ally[®] (metsulfuron), Harmony[®], Finesse[®], and others.

FALL SEEDED WHEAT

BANVEL SGF AND BANVEL SGF TANK MIXES MUST BE APPLIED TO FALL SEEDED WHEAT PRIOR TO THE JOINTING STAGE.

BROADCAST RATE PER TREATED ACRE:

1/2 pint (1/8 lb. a.i.)

TANK MIX TREATMENTS

For control of grasses or additional broadleaf weeds, BANVEL SGF may be tank mixed with the following herbicides. Read and follow the label of each tank mix product used for rate recommendations, precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

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BROADCAST RATE PER TREATED ACRE:

Apply 1/4-1/2 pint (1/16-1/8 lb. a.i.) BANVEL SGF with:

Herbicide	product amount	lb. a.i.
2,4-D*	1/2 - 3/4 pint	1/4 - 3/8
MCPA*	1/2 - 3/4 pint	1/4 - 3/8

bromoxynil

Buctril®

bromoxynil + MCPA

Bronate®

clopyralid

Curtail®

Curtail®-M

Stinger®

diuron

Karmex® 80WP

metribuzin**

Sencor® 75DF

Sencor® 4

sulfonylurea***

Ally® (metsulfuron),

Glean® (chlorsulfuron),

Finesse®, Harmony®,

and others.

CONSULT
PRODUCT LABELS
FOR RATE
RECOMMENDATIONS

* Based on 4 pounds per gallon formulations of MCPA and 2,4-D.

** Application may be made after fall seeded wheat has started to grow and has a well established secondary root system or is beginning to tiller, but prior to the jointing stage. Consult the Sencor Product Label for wheat variety restrictions.

*** When tank mixing with Sulfonylurea herbicides refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 1-2 quarts/100 gallons of spray or not more than 0.25-0.50% by volume. Use the higher rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature weeds or dense vegetative growth.

Sulfonylurea resistant weeds may not be controlled by tank mixes of BANVEL SGF and a sulfonylurea. Refer to the BANVEL SGF tank mix section for alternative tank mixes.

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SPECIAL USE TANK MIX FOR FALL SEEDED WHEAT ONLY

BANVEL SC™	1/2 pint	1/8 lb. a.i.
plus	plus	plus
2,4-D amine	1 to 2 pints	1/2 to 1 lb. a.i.
or	or	or
MCPA amine	1 to 2 pints	1/2 to 1 lb. a.i.
or	or	or
2,4-D ester	1 to 2 pints	1/2 to 3/4 lb. a.i.
or	or	or
MCPA ester	1 to 1½ pints	1/2 to 3/4 lb. a.i.

Note: Do not use unless possible crop injury will be acceptable.

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SPRING SEEDED WHEAT

BANVEL SGF AND BANVEL SGF TANK MIXES MUST BE APPLIED BEFORE SPRING SEEDED WHEAT EXCEEDS THE 5-LEAF STAGE.

BROADCAST RATE PER TREATED ACRE:

1/2 pint (1/8 lb. a.i.)

TANK MIX TREATMENTS

BANVEL SGF may be tank mixed with the following herbicides. Read and follow the label of each tank mix product used for rate recommendations, precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

BROADCAST RATE PER TREATED ACRE:

Apply 1/4-1/2 pint (1/16-1/8 lb. a.i.) BANVEL SGF with:

Herbicide	product amount	lb. a.i.
2,4-D*	1/2-3/4 pint	1/4 - 3/8
MCPA	1/2-3/4 pint	1/4 - 3/8

bromoxynil

Brominal*

Buctril*

clopyralid

Curtail*

Curtail*-M

Stinger*

sulfonylureas**

Ally* (metsulfuron)

Glean* (chlorsulfuron)

Finesse*

Harmony* and others

CONSULT
PRODUCT LABELS
FOR RATE
RECOMMENDATIONS.

* Based on 4 pounds per gallon formulations of MCPA and 2,4-D.

** When tank mixing with sulfonylurea herbicides refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 1-2 quarts/100 gallons of spray or not more than 0.25-0.50% by volume. Use the higher rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature weeds or dense vegetative growth.

Sulfonylurea resistant weeds may not be controlled by tank mixes of BANVEL SGF and a sulfonylurea. Refer to the BANVEL SGF tank mix section for alternative tank mixes.

FALL SEEDED BARLEY

BANVEL SGF AND BANVEL SGF TANK MIXES MUST BE APPLIED TO FALL SEEDED BARLEY PRIOR TO THE JOINTING STAGE.

BROADCAST RATE PER TREATED ACRE:

1/2 pint (1/8 lb. a.i.)

Note: For fall barley varieties that are seeded during the winter months or later, follow the rates and timings given for Spring Seeded Barley.

TANK MIX TREATMENTS

BANVEL SGF may be tank mixed with the following herbicides. Read and follow the label of each tank mix product used for rate recommendations, precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

BROADCAST RATE PER TREATED ACRE:

Apply 1/4-1/2 pint (1/6 - 1/8 lb. a.i.) BANVEL SGF with:

Herbicide	product amount	lb. a.i.
2,4-D*	1/2 pint	1/4
MCPA	1/2-3/4 pint	1/4 - 3/8

sulfonylureas**
 Ally* (metsulfuron)
 Glean* (chlorsulfuron) CONSULT
 Finesse* PRODUCT LABELS
 (and others) FOR RATE
 metribuzin RECOMMENDATIONS.
 Sencor* 4
 Sencor* 75DF

* Based on 4 pounds per gallon formulations of MCPA and 2,4-D.

** When tank mixing with sulfonylurea herbicides refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 1-2 quarts/100 gallons of spray or not more than 0.25-0.50% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/ or when treating more mature weeds or dense vegetative growth.

Sulfonylurea resistant weeds may not be controlled by tank mixes of BANVEL SGF and a sulfonylurea. Refer to the BANVEL SGF tank mix section for alternative tank mixes.

SPRING SEEDED BARLEY

BANVEL SGF AND BANVEL SGF TANK MIXES MUST BE APPLIED BEFORE SPRING SEEDED BARLEY EXCEEDS THE 3-LEAF STAGE.

BROADCAST RATE PER TREATED ACRE:

3/8 pint (3/32 lb. a.i.)

TANK MIX TREATMENTS

BANVEL SGF may be tank mixed with the following herbicides. Read and follow the label of each tank mix product used for rate recommendations, precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

BROADCAST RATE PER TREATED ACRE:

Apply 1/4-3/8 pint (1/16-3/32 lb. a.i.) BANVEL SGF with:

Herbicide	product amount	lb. a.i.
MCPA*	1/2-3/4 pint	1/4 - 3/8

metribuzin

Sencor® 4

Sencor® 75DF

sulfonylureas**

Ally® (metsulfuron)

Glean® (chlorsulfuron)

Finesse®

Harmony® and others

CONSULT
PRODUCT LABELS
FOR RATE
RECOMMENDATIONS.

* Based on 4 pounds per gallon formulations of MCPA.

** When tank mixing with sulfonylurea herbicides refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 1-2 quarts/100 gallons of spray or not more than 0.25-0.50% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature weeds or dense vegetative growth.

Sulfonylurea resistant weeds may not be controlled by tank mixes of BANVEL SGF and a sulfonylurea. Refer to the BANVEL SGF tank mix sections for alternative tank mixes.

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FALL AND SPRING SEEDED OATS

BANVEL SGF AND BANVEL SGF TANK MIXES MUST BE APPLIED BEFORE SPRING SEEDED OATS EXCEED THE 5-LEAF STAGE OR PRIOR TO JOINTING OF FALL SEEDED OATS.

BROADCAST RATE PER TREATED ACRE:

1/2 pint (1/8 lb. a.i.)

TANK MIX TREATMENTS

BANVEL SGF may be tank mixed with the following herbicides. Read and follow the label of each tank mix product used for rate recommendations, precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

BROADCAST RATE PER TREATED ACRE:

Apply 1/4-1/2 pint (1/16-1/8 lb. a.i.) BANVEL SGF with:

Herbicide	product amount	lb. a.i.
MCPA*	1/2-3/4 pint	1/4 - 3/8

* Based on 4 pounds per gallon formulations of MCPA.

BETWEEN CROPPING APPLICATIONS (BCA) FOR BROADLEAF WEED CONTROL

IMPORTANT

Observe all precautions. Read and follow mixing and application instructions.

WEEDS CONTROLLED

BANVEL SGF, when applied at the recommended rates, will control many ANNUAL and BIENNIAL broadleaf weeds, see the WEEDS CONTROLLED section under small grains. In addition, BANVEL SGF will control the following PERENNIAL broadleaf weeds:

- | | |
|----------------------|------------------------|
| *Alfalfa | *Dogbane, Hemp |
| Artichoke, Jerusalem | Garlic, Wild** |
| Bindweed, Field | Horsenettle, Carolina |
| Bindweed, Hedge | Nightshade, Silverleaf |
| Blueweed, Texas | Redvine |
| *Bursage | Smartweed, Swamp |
| (Bur Ragweed) | *Sowthistle, Perennial |
| (Povertyweed) | Thistle, Canada** |
| (Lakeweed) | Trumpetcreeper |
| *Dandelion, Common | (Buckvine) |
| *Dock, Curly | |

Noted (*) perennials may be controlled using BANVEL SGF at rates lower than those recommended for other listed perennial weeds. (See RATES AND TIMINGS under this heading.)

**See the SPECIAL TANK MIX TREATMENTS section under this heading for the specific control program for these weeds.

RATES AND TIMINGS

Apply BANVEL SGF as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest and before a killing frost. Agriculturally approved spray additives, such as surfactants or oils, may be used to enhance spray coverage and the herbicide's penetration of weed foliage. See ROTATIONAL CROPS for recommended interval between application and planting to prevent crop injury.

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For best performance, make application when ANNUAL weeds are less than 6 inches tall, when BIENNIAL weeds are in the rosette stage, and to PERENNIAL weed regrowth in late summer or fall following a mowing or tillage treatment. Most effective control of upright perennial broadleaf weeds, such as Canada thistle and Jerusalem artichoke, occurs if application is made when the majority of weeds are 8 inches or taller. Viney perennial broadleaf weeds, such as field bindweed and hedge bindweed, are best controlled when weeds are in or beyond the full bloom stage.

Avoid disturbing treated areas following application. Treatments may not kill weeds which develop from seed or underground plant parts, such as rhizomes or bulblets, after the effective period for BANVEL SGF. For seedling control, a follow-up program or other cultural practices could be instituted. For small grain in-crop uses of BANVEL SGF, see the RATES AND TIMINGS section under the SMALL GRAINS heading for details.

BANVEL SGF per treated acre

Weed Stage & Type	product amount	lbs. a.i.
Annual	1-2 pts.	1/4-1/2
Biennial	2-4 pts.	1/2-1
Perennial		
Perennial suppression	2-4 pts.	1/2-1
Noted (†) perennials	4-8 pts.	1-2
Other perennials	8 pts.	2

Retreatments may be made as needed; however, do not exceed a total of 8 pints (2 lbs. a.i.) of BANVEL SGF per treated acre during any given fallow period.

TANK MIX TREATMENTS

BANVEL SGF may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for rate recommendations, precautionary statements, directions for use, rates and timings, weeds controlled and geographic or other restrictions.

Annual Weed Control

Perennial Weed Control

atrazine*
 Aatrex® 4L
 Aatrex® 8OW
 Aatrex® Nine-0
 sulfonyleureas**
 Glean® (chlorsulfuron)
 (and others)
 cyanazine*
 Bladex® 4L
 Bladex® 8OW
 glyphosate
 Roundup®
 Roundup® RT
 Fallowmaster®
 Landmaster® II
 Landmaster® BW
 metribuzin*
 Sencor® DF
 Sencor® 4
 paraquat
 Gramoxone® Super
 Cyclone®
 2,4-D

clopyralid
 Curtail®
 glyphosate
 Roundup®
 Roundup® RT
 Fallowmaster®
 Landmaster® II
 Landmaster® BW
 2,4-D

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 PRODUCT LABELS
 FOR RATE
 RECOMMENDATIONS

* Tank mixes of BANVEL SGF with these products may be subject to special restrictions. See the Product Label of the tank mix partner for intended use, rates, restrictions, and other precautions.

** When tank mixing with sulfonyleurea herbicides refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 1-2 quarts/100 gallons of spray or not more than 0.25-0.50% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature weeds or dense vegetative growth.

Sulfonyleurea resistant weeds may not be controlled by tank mixes of BANVEL SGF and a sulfonyleurea. Refer to the BANVEL SGF tank mix section for alternative tank mixes.

SPECIAL TANK MIX TREATMENTS

For suppression of perennial weeds, apply 1-2 pints (1/4-1/2 lb. a.i.) of BANVEL SGF with 1/2-1 pint of Roundup Herbicide per treated acre.

For wild garlic control, apply 2 pints (1/2 lb. a.i.) BANVEL SGF with 1 1/2 lbs. acid equivalent 2,4-D low volatile ester per treated acre. Apply when wild garlic is 4 to 8 inches tall.

For Canada thistle control, use BANVEL SGF, BANVEL SGF plus Curtail, or BANVEL SGF plus Roundup Herbicide tank mix treatments.

Application may be made during fallow periods for control of volunteer barley, bulbous bluegrass, downy brome, jointed goatgrass, common rye and volunteer wheat when they are actively growing. Use 2 pints (1/2 lb. a.i.) BANVEL SGF with 1/2 - 3/4 lb. Kerb 50W (1/4 - 3/8 lb. a.i.). Fall seeded wheat may be planted 9 months or more after application. For best performance, make application between mid-October and mid-December, prior to soil freeze up.

During fallow periods, apply BANVEL SGF plus Landmaster II Herbicide to give improved control of kochia, wild buckwheat, prickly lettuce, field bindweed and Canada thistle. Use 1/4 - 1/2 pint of BANVEL SGF (1/16 - 1/8 lb. a.i.) plus 2 1/2-3 3/8 pints of Landmaster II Herbicide for annual weed control or 1/2-1 pint of BANVEL SGF (1/8 - 1/4 lb. a.i.) plus 2 1/2 - 3 3/8 pints of Landmaster II Herbicide for perennial weed suppression.

ROTATIONAL CROPS

The following recommendations are based on BANVEL SGF use rates up to 8 pints (2 lbs. a.i.) per treated acre.

CORN and **SORGHUM** may be planted in the spring following applications made during the previous year.

SOYBEANS may be planted in the spring following applications made during the previous year. If less than 1 inch of rainfall occurs between application and first killing frost, treated areas should be cultivated to allow herbicide to come in contact with moist soil. Cultivation may take place before or immediately after ground thaw.

Soybean injury may occur if the interval between application and planting is less than specified. In areas with greater than 30 inches of rainfall, delay planting for 15 days per pint of BANVEL SGF per treated acre. In areas with less than 30 inches of rainfall, delay planting for 23 days per pint of BANVEL SGF per treated acre. Exclude days when ground is frozen.

WHEAT may be planted in the fall or spring following applications. Also, spot applications may be made any time prior to crop emergence if crop injury can be tolerated in treated areas. Wheat injury may occur if the interval between application and planting is less than specified.

East of the Mississippi River, the interval is 10 days per pint of BANVEL SGF per treated acre. Exclude days when ground is frozen.

West of the Mississippi River, the interval is 23 days per pint of BANVEL SGF per treated acre. Exclude days when ground is frozen.

Following a normal harvest of corn, sorghum, soybeans, wheat or cotton, any rotational crop may be planted. If the interval before harvest is shortened, such as when cover crops will be plowed under, do not follow up with the planting of a sensitive crop.

Following a normal harvest of barley, oats, wheat or cotton, any rotational crop may be planted. If the interval before harvest is shortened, such as when cover crops will be plowed under, do not follow up with the planting of a sensitive crop.

CONTROL OF PERENNIAL BROADLEAF WEEDS IN CROPLAND OR FALLOW (SPOT APPLICATION ONLY)

**For Use Only in the States of
Colorado, Idaho, Kansas, Montana,
Nebraska, Nevada, North Dakota, Oregon,
South Dakota, Utah, Washington and Wyoming.**

IMPORTANT

Observe all precautions. Read and follow mixing and application instructions.

Do not treat subirrigated cropland or areas when the soil remains saturated with water throughout the year.

Make only one application of BANVEL SGF per year.

WEEDS CONTROLLED

BANVEL SGF, when applied at recommended rates, will control many broadleaf weeds including:

Bindweed, Field	Knapweed, Russian
Dock, Broadleaf (Bitterdock)	Ragwort, Tansy
Dock, Curly	Spurge, Leafy
Knapweed, Black	Thistle, Canada

RATES AND TIMINGS

BANVEL SGF may be applied at any time following a crop harvest to stubble fallow or other cropland. Application should be made when weeds are actively growing and prior to a killing frost.

Apply 8 to 12 quarts (4-6 lbs. a.i.) of BANVEL SGF per treated acre. Application may be made up to one month prior to the planting of wheat.

Note: Do not use unless injury to wheat or rotated barley will be acceptable.

Barley, oats, corn, sorghum (milo), annual or perennial grass crops may be planted into treated areas one year after application. Crops grown for seed (other than perennial grass seed) should not be planted into treated areas until three years after application. Do not plant broadleaf crops such as alfalfa, beans, peas, potatoes, or sugarbeets into treated areas until two years after application.

In most cases, treatments will not kill perennial weed seedlings which germinate from seed one or two years after treatment. Once the effect of the chemical has been lost, a follow-up program for seedling control or other cultural practices should be instituted.

WIPER APPLICATION USES IMPORTANT

Observe all precautions.

BANVEL SGF may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush and vines. Use a solution containing 2 parts BANVEL SGF to 1 part water. Do not contact desirable vegetation with herbicide solution. Wiper application should only made to crops and non-cropland areas described in this label.

GRASS SEED CROPS

Perennial Grasses such as Bermudagrass, Bluegrass, Lawn type Fescue and Ryegrass.

DIRECTIONS FOR USE

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

IMPORTANT

Before using this product, read and carefully observe all applicable directions, restrictions, and precautionary statements on the EPA-registered container label attached to the container.

RATES AND TIMINGS

Apply 1 to 4 pints (1/4-1 lb. a.i.) of BANVEL SGF in 5 to 40 gallons of diluted spray per treated acre after weeds have emerged and are actively growing for control of broadleaf weeds such as:

- | | |
|-------------------|--------------------|
| *Alfalfa | Cockle, White |
| Bindweed, Field | Dock, Curly |
| Catchfly, | *Knapweed, Russian |
| Nightflowering | Knotweed |
| Chamomile, Corn | Sorrel, Red |
| Chickweed, Common | (Sheep Sorrel) |
| Chickweed, | Starwort, Little |
| Mouseear | *Thistle, Canada |
| Clover | |

* Top growth control only.

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Use 1 to 2 pints (1/4-1/2 lb. a.i.) of BANVEL SGF per treated acre on SEEDLING GRASS after the crop reaches the 3-5 leaf stage. Up to 4 pints (1 lb. a.i.) of BANVEL SGF per treated acre may be used on well-established PERENNIAL grass. DO NOT APPLY AFTER THE GRASS SEED CROP BEGINS TO JOINT.

GEOGRAPHICAL RESTRICTIONS

For use in the state of Idaho, Union County Oregon, and the counties of Spokane, Whitman, Lincoln, Adams, Garfield, Asotin, Columbia, Walla Walla, Stevens, Ferry and Franklin in the state of Washington.

LIMITATION OF WARRANTY & 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. Crop 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. **Sandoz makes no other express or implied warranty of fitness or of merchantability or any other express or implied warranty.**

In no 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 Sandoz 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 Sandoz 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.

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