



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
120 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

264-817

Date of Issuance:

4/12/2004

Term of Issuance:

Conditional

Name of Pesticide Product:

Betanex B Herbicide

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended):

Name and Address of Registrant (include ZIP Code):

Bayer CropScience
2 T.W. Alexander Dr.
Research Triangle Park, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided you agree in writing that:

1. Submit the following outstanding product chemistry data requirement: one year storage stability study (830.6317), within one year from the date of this letter.
2. Submit the analytical method for the determination of the active ingredient in this product to the EPA Analytical Laboratory at Ft. Mead, MD, within one year from the date of this letter.
3. Add the appropriate establishment number to the label.
4. Add the phrase "Harmful if swallowed" before "Causes moderate eye irritation" under the PRECAUTIONARY STATEMENTS section of the label.
5. Add the following statements to the USER SAFETY RECOMMENDATIONS section of the label:
"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."

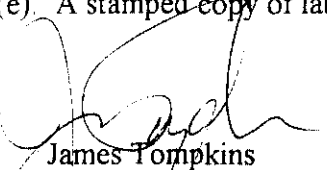
Signature of Approving Official:

James Tompkins, Product Manager (25)
Herbicide Branch, Registration Division (7505C)

Date:

4/12/2004

You will submit three (3) copies of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). A stamped copy of labeling is enclosed for your records.



James Tompkins
Product Manager (25)
Herbicide Branch
Registration Division (7505C)

attachment

3/11

APR 12 2004

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

Betanex[®] β Herbicide

FOR AGRICULTURAL USE ONLY

Postemergence Herbicide for Control of Redroot Pigweed and Other Weeds in Sugar Beets

264-817

ACTIVE INGREDIENT: Desmedipham* 30.0%

INERT INGREDIENTS:** 70.0%

Contains 2.7 lbs. active ingredient per gallon. **TOTAL: 100.0%**

* Ethyl m-hydroxycarbanilate carbanilate (ester)

** Contains petroleum distillates

EPA Reg. No: 264-817

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

CAUTION

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none"> Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Contains petroleum distillate.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Contains Petroleum Distillate. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves such as Natural Rubber \geq 14 mils (includes natural rubber blends and laminates).

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Natural Rubber \geq 14 mils (includes natural rubber blends and laminates)
- Shoes plus socks
- Protective eyewear (such as goggles, face shield, or safety glasses)

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.

4/11

ENGINEERING CONTROLS STATEMENT

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

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container and keep closed. Store in a cool, dry place. Do not use or store near heat or open flame.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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.

WHEN PACKAGED IN PLASTIC CONTAINERS:

Container Disposal: Triple rinse (or equivalent), then offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by other procedures approved by State and local authorities.

DO NOT REUSE THIS CONTAINER.

DESTROY WHEN EMPTY.

WHEN PACKAGED IN SVR CONTAINERS:

ECHO SYSTEM[®] SVR Return Procedure: Return the ECHO SYSTEM SVR container clean (outside only) and empty to the place of business from which the Betanex[®] β Herbicide was purchased.

This ECHO SYSTEM SVR container is the sole property of Bayer CropScience.

DIRECTIONS FOR USE

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

Read the entire Directions for Use before using this product.

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 restricted entry interval (REI) of 24 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
- Chemical-resistant gloves such as Natural Rubber ≥ 14 mils (includes natural rubber blends and laminates)
- Shoes plus socks
- Protective eyewear (such as goggles, face shield, or safety glasses)

GENERAL INFORMATION

When used as directed, Betanex® β Herbicide is selective against weeds in sugar beets. Follow label directions carefully to avoid severe injury to sugar beets. For best results, spray weeds in the cotyledon stage which are actively growing and are not under water or heat stress. Betanex® β Herbicide will control the following weeds:

- Annual sowthistle *Sonchus oleraceus*
- Black nightshade *Solanum nigrum*
- Hairy nightshade *Solanum sarrachoides*
- Coast fiddleneck..... *Amsinckia intermedia*
- Common chickweed *Stellaria media*
- Common lambsquarters *Chenopodium album*
- Common ragweed *Ambrosia artemisiifolia*
- Groundcherry *Physalis lanceifolia*
- London rocket..... *Sisymbrium irio*
- Nettleleaf goosefoot *Chenopodium murale*
- Prostrate pigweed *Amaranthus gracizans*
- Purslane *Portulaca oleracea*
- Redroot pigweed *Amaranthus retroflexus*
- shepherdspurse *Capsella bursa-pastoris*
- Wild buckwheat *Polygonum convolvulus*
- Wild mustard *Brassica kaber*

GENERAL PRECAUTIONS AND RESTRICTIONS

DO NOT APPLY BETANEX® β HERBICIDE TO SUGAR BEETS LATER THAN 75 DAYS PRIOR TO HARVEST.

DO NOT EXCEED A TOTAL OF 6 PINTS BETANEX® β PER ACRE PER SEASON.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

BETANEX® β MAY CAUSE BEET INJURY IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS:

- Rapid climatic changes from cool, overcast days, to hot (80°F or over) bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the late afternoon when the temperature is decreasing
- Frost within 3 days prior to application or 7 days following treatment
- Windy conditions or drought
- Use of a preplant or preemergence herbicide or other chemicals
- Insect or disease injury
- Close cultivation

If stress conditions are present, delay application in order to give plants a chance to recover.

IMPORTANT: Betanex® β Herbicide may cause temporary growth retardation and/or chlorosis or tipburn on sugar beets. Sugar beets usually resume normal growth within 10 days.

DO NOT OVERTREAT: The use of higher than recommended rates may cause beet injury and/or carry over problems when tank mixed with Nortron® SC Herbicide.

Do not spray while dew is present.

Rainfall or sprinkler irrigation within 6 hours of spraying may reduce weed kill.

Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

PRACTICES TO LOWER THE POTENTIAL FOR SPRAY DRIFT

Avoiding spray drift at the application site is the responsibility of the applicator. The interactions of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
2. Nozzles must always point backward, parallel with the air stream, and never be pointed downward more than 45 degrees.

Where States or Tribes have more stringent regulations, they should be observed.

The applicator should be familiar with, and take into account, the information covered in the *Aerial Drift Reduction Advisory Information*.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Information On Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions. (See *Wind, Temperature and Humidity, and Temperature Inversions*.)

Controlling Droplet Size:

- Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length:

For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height:

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment:

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

Wind:

Drift potential is lowest between windspeeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity:

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions:

Avoid applications during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light-to-no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if the fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

The pesticide should be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from sensitive areas).

MIXING THE SPRAY:

MAKE SURE THE SPRAYER IS CLEAN.

Betanex® β emulsifiable concentrate formulation contains sufficient wetting agents for optimum coverage. Do not add additional wetting agents or other spray adjuvants except as specified for "Micro-Rate Applications". Add sufficient water to fill the lines, then add the desired amount of Betanex® β Herbicide and the remaining quantity of water with the bypass agitator running. Bypass agitation is sufficient; mechanical agitation is not necessary. Only use freshly prepared spray emulsions.

Always spray immediately after preparing the spray solution. Prepare only enough spray solution to last less than four hours.

RATES OF APPLICATION

MULTIPLE (LOW RATE) APPLICATIONS (ALL SUGAR BEET AREAS EXCEPT CALIFORNIA):

Multiple (low rate) applications of Betanex® β Herbicide may be applied by air or ground to sugar beets to control early germinating weeds. The first application must be applied when the earliest emerging weeds have reached cotyledon size. See *Chart 1* for broadcast rates. For broadcast applications with ground equipment, apply in 10 to 20 gallons of water per acre. Use 5 to 15 gallons of water per acre with aerial application. See *Chart 2* for equivalent band rates. Any weeds which are not completely controlled by the first treatment will usually be checked and controlled by repeat applications. The repeat application should be made 5 to 7 days after the preceding application, or when another flush of weeds germinates. If the second application is delayed, conventional treatment will be necessary; see Conventional Applications.

To avoid excessive phytotoxicity to fall-planted sugar beets south of the Tehachapi Mountains in California when temperatures are above 85°F, apply Betanex® β at the rate of 0.5 pint per acre (broadcast equivalent). Evening applications are recommended.

Betanex® β Herbicide applied postemergence in a tank mix with Nortron® SC Herbicide (see *Chart 3*) broadens and enhances the control of troublesome weeds. In addition, it provides control of Ladysthumb (*Polygonum persicaria*) and Pennsylvania smartweed (*Polygonum pennsylvanicum*).

For further information, contact your County Agricultural Agent, Farm Advisor or Bayer CropScience.

CHART 1

DOSAGE CHART FOR MULTIPLE (LOW RATE) BROADCAST APPLICATIONS

Pints/Acre Broadcast

Weed Stage*	BETANEX® β ALONE	BETANEX® β + NORTRON® SC	
Cotyledon	0.75-1.5	0.75	+ 0.25
2 leaf	1.0-1.5	1.0	+ 0.33
4 leaf	1.5-2.25	1.5	+ 0.5

*Applications should begin at the cotyledon stage of the weeds.

*Higher dosage rates could be required, depending on the advancement of the weed stage.

*Do not exceed 0.75 pt./acre when sugarbeets are at or less than the cotyledon stage.

*Early two true-leaf sugar beets tend to be the most susceptible to phytotoxicity.

CHART 2

BETANEX® β HERBICIDE DOSAGE CHART FOR BAND APPLICATION

Band Rate — Row Spacing (fluid ounces)

Broadcast Equivalent	Band Width	Band Rate — Row Spacing (fluid ounces)			
		22"	24"	28"	30"
0.75 pints/acre	5"	2.75	2.5	2.2	2.0
	7"	3.8	3.5	3.0	2.8
1.0 pints/acre	5"	3.6	3.3	2.8	2.6
	7"	5.1	4.6	4.0	3.75
1.5 pints/acre	5"	5.4	5.0	4.3	4.0
	7"	7.6	7.0	6.0	5.6
2.25 pints/acre	5"	8.2	7.5	6.4	6.0
	7"	11.4	10.5	9.0	8.4
3.0 pints/acre	5"	10.9	10.0	8.5	8.0
	7"	15.25	14.0	12.0	11.2
3.75 pints/acre	5"	13.6	12.5	10.7	10.0
	7"	19.1	17.5	15.0	14.0

CHART 3

NORTRON® SC DOSAGE CHART FOR MULTIPLE (LOW RATE) BAND APPLICATIONS

Band Rate — Row Spacing (fluid ounces)

Broadcast Equivalent	Band Width	Band Rate — Row Spacing (fluid ounces)			
		22"	24"	28"	30"
0.25 pints/acre	5"	0.9	0.8	0.7	0.7
	7"	1.3	1.2	1.0	0.9
0.33 pints/acre	5"	1.2	1.1	0.9	0.9
	7"	1.7	1.5	1.3	1.2
0.5 pints/acre	5"	1.8	1.7	1.4	1.3
	7"	2.5	2.3	2.0	1.9

CONVENTIONAL APPLICATIONS

By Ground: Apply Betanex® β Herbicide at the rate of 2.25 to 3.75 pints per acre in 20 to 50 gallons of water broadcast basis. For band application, see *Chart 2*.

By Air: Apply Betanex® β Herbicide at the rate of 2.25 to 3.75 pints per acre using 5 to 15 gallons of spray per acre.

Apply the 2.25 to 3.75 pint rates only to sugar beets past the two true-leaf stage. Use the 3.75-pint rate only on well-established sugar beets which are not under stress. The stage of growth of the weeds is very important for satisfactory control. For best results, spray when the weeds are at the two true-leaf stage or smaller, are actively growing and are not under water or heat stress.

In order to avoid phytotoxic spray drift to nontarget crops during application of Betanex® β, the following buffer zones should be observed:

Cotton, Potatoes, Sunflowers, Sorghum, Wheat 50 feet

Blackeye beans, Cabbage, Flax 100 feet

Lettuce, Rape, Tomatoes 300 feet

DO NOT APPLY WHEN WIND SPEED IS OVER 10 MILES PER HOUR. AVOID APPLICATIONS WHEN CONDITIONS FAVOR DRIFT.

REPEAT APPLICATION OF BETANEX® β HERBICIDE: For control of later germinating weeds, make a second application of Betanex® β Herbicide; use 2.25 to 3 pints of Betanex® β. Allow at least 7 days between first and second applications. Apply when sugar beets have at least 4 leaves. For best results, use the higher rate and spray when weeds are at the two true-leaf stage. Apply lower rates when the sugar beets are under stress as explained in the Use Precautions section.

9/11

TANK MIX COMBINATIONS

When tank mixing, read and follow the label for each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic, and other restrictions. Use in accordance with the most restrictive of label limitations and precautions. No label dosage should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

BETANEX® β Herbicide can be tank mixed with the following broadleaf herbicides for improved broadleaf weed control if application timing is correct for the tank mix products.

Herbicide	Use Rate (pt./A)
Stinger®*	0.25–0.50
BETAMIX®	See Chart 4
PROGRESS®	See Chart 4
BETAMIX® β	See Chart 5
PROGRESS® β	See Chart 5

*The BETANEX® β + Stinger® tank mix should be applied when sugar beets are in the two true-leaf stage or larger.

CHART 4

DOSAGE CHART FOR TANK MIXES OF BETAMIX® OR PROGRESS® WITH BETANEX® β HERBICIDE

Equivalent Betanex® β Desired Rate (Pints/acre Broadcast)	Betamix® + Betanex® β Herbicide (Pints/acre Broadcast)	Progress® + Betanex® β Herbicide (Pints/acre Broadcast)
0.57	0.57 + 0.28	0.43 + 0.28
0.62	0.63 + 0.32	0.47 + 0.32
0.67	0.67 + 0.33	0.50 + 0.33
0.75	0.75 + 0.37	0.56 + 0.37
0.87	0.88 + 0.44	0.66 + 0.44
1.12	1.13 + 0.57	0.85 + 0.57
1.62	1.63 + 0.81	1.22 + 0.81
2.50	2.50 + 1.25	1.88 + 1.25

CHART 5

DOSAGE CHART FOR TANK MIXES OF BETAMIX® β OR PROGRESS® β WITH BETANEX® β HERBICIDE

Equivalent Betanex® β Desired Rate (Pints/acre Broadcast)	Betamix® β + Betanex® β Herbicide (Pints/acre Broadcast)	Progress® β + Betanex® β Herbicide (Pints/acre Broadcast)
0.57	0.28 + 0.28	0.22 + 0.28
0.62	0.32 + 0.32	0.23 + 0.32
0.67	0.33 + 0.33	0.25 + 0.33
0.75	0.37 + 0.37	0.28 + 0.37
0.87	0.44 + 0.44	0.33 + 0.44
1.12	0.57 + 0.57	0.43 + 0.57
1.62	0.81 + 0.81	0.61 + 0.81
2.50	1.25 + 1.25	0.94 + 1.25

10/11

MICRO-RATE APPLICATIONS (EXCEPT CALIFORNIA)

Multiple Micro-rate applications of Betanex® β Herbicide in tank mixtures with reduced rates of UpBeet®, Stinger®, and modified seed oils may be applied by air or ground equipment to sugar beets to control early germinating weeds.

When adding spray adjuvants to Betanex® β the rate must not exceed 0.08 lb a.i./A (see Dosage Chart 6 below) when sugar beets are in the cotyledon to 4-true-leaf stage. When the smallest sugar beet plants in the field are in the 4-true-leaf stage, the rate can be increased to 0.12 lb a.i./A (see Dosage Chart 6 below). The use of wetting agents or spray adjuvants with conventional rates (0.73 to 1.22 lb a.i./acre) or multiple low rate (0.24 to 0.73 lb a.i./acre) applications of Betanex® β is prohibited.

Favorable climatic conditions (good conditions for plant growth and development) are essential for adequate weed control.

DOSAGE CHART 6 DOSAGE CHART FOR MULTIPLE MICRO-RATE BROADCAST APPLICATIONS

Sugar Beet Stage	Betanex® β Herbicide Fluid Ounces/Acre Broadcast
Cotyledon to 4-leaf	4.0 (equivalent to 0.08 lb. ai/A)
4-Leaf*	4.0 – 6.0 (equivalent to 0.08 – 0.12 lb. ai/A)

* Rate can be increased when the smallest sugar beet plants in the field are in the 4-true leaf stage or larger.

Application of Betanex® β Herbicide in broadcast applications is strongly recommended. If band applications are used, do not use less than 11-inch bands.

For broadcast applications of Betanex® β with selected tank mix partners, apply in 10 to 20 gallons of water per acre for ground application, or 5 to 15 gallons of water per acre for aerial application. Use the minimum rate recommended on the tank mix partner label, or a reduced rate of the tank mix partner(s), at the discretion of the grower or applicator, as permitted under FIFRA. [Minimum label rate for UpBeet® is 0.5 oz/acre; for Stinger®, 4.0 fl oz/acre.]

Use modified seed oils at a finished spray concentration of 1.5% v/v or a minimum of 1 pt/acre. A minimum of three sequential applications should be used. Accurate timing is essential; make initial application immediately after weeds emerge, and make repeat applications on 5- to 7-day intervals. If weed control is not adequate due to climatic conditions, spray coverage or other factors, return to multiple (low rate) applications.

Betanex® β Herbicide can be mixed with UpBeet®, Stinger®, and modified seed oils for use on sugar beets in accordance with the most restrictive label limitations and precautions. No label dosage rates should be exceeded. Betanex® β Herbicide cannot be mixed with any product containing a label prohibition against such mixing.

Fungicides or insecticides can be tank mixed with Betanex® β plus UpBeet® plus Stinger® plus methylated seed oils, however, do not combine both fungicides and insecticides with micro-rate mixtures.

MIXING INSTRUCTIONS FOR MICRO-RATE MULTIPLE APPLICATIONS OF BETANEX® β HERBICIDE

1. Start with a clean spray tank.
2. Fill spray tank with one-third of the total amount of clean water needed for application and start gentle agitation.
3. Slurry UpBeet® in water before adding to spray tank, then add slurred UpBeet® to spray tank.
4. Fill spray tank to two-thirds of the total amount of clean water needed for the application.
5. Add Betanex® β followed by Stinger®, then modified seed oil.
6. Add remaining amount of water while continuing gentle agitation. Spray immediately. Spray mixture should not remain in spray tank overnight.

USE PRECAUTIONS FOR MICRO-RATE APPLICATIONS

Not all weeds will be adequately controlled, even with favorable climatic conditions. Micro-rate applications of Betanex® β mixed with UpBeet® and Stinger® will not control ALS-resistant kochia. Multiple low rates of Betanex® β and/or hand labor may be required if multiple micro-rate applications do not adequately control weeds.

Modified seed oils must not be added if the Betanex® β rates exceed the rates listed in Dosage Chart 5 above, as the addition of modified seed oils could increase the possibility of crop injury at dosage rates greater than those listed in the Dosage Chart 6.

11/11

Multiple micro-rate applications may injure sugar beets if climatic conditions rapidly change from cool, wet, overcast days to bright sunny days! Plugging of spray nozzles may be encountered due to the potential formation of a precipitate in the spray solution that is often associated with micro-rate applications. To minimize potential formation of precipitate, start with a clean spray system, use warm spray water for mixing, completely empty spray solution from each tank load, flush tank and lines between loads with fresh water, never leave diluted spray solution in tank overnight, and/or add ammonia (2% household) at 1% v/v or a basic blend additive (as referenced in the most recent North Dakota State University Weed Control Guide) at 1% v/v. DO NOT apply micro-rate treatments when conditions are favorable for drift to nontarget species.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

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