

PM-25

Reg # 45639-86

1986



AgrEvo™

Specimen Label

A company of Hoechst and NOR-AM

FOR AGRICULTURAL USE ONLY

Betanex®

HERBICIDE

EPA Registration Number 45639-86

MAY - 9 1995

45639-86



1986

296

For Agricultural Use Only
Betanex[®]
SUGAR BEET HERBICIDE

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

ACTIVE INGREDIENT:

Desmedipham* 16.0%

INERT INGREDIENTS: 84.0%

TOTAL 100.0%

Contains 1.3 lbs. active ingredient per gallon.

This product contains the toxic inert ingredient isophorone.

*Ethyl *m*-hydroxycarbanilate carbanilate (ester)

EPA Reg. No. 45639-86

EPA Est. No. 407-MN-1

**KEEP OUT OF REACH OF CHILDREN
WARNING — AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand this label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or poison control center. Do not induce vomiting.

NOTE TO PHYSICIAN: Empty stomach contents by gastric lavage. Avoid aspiration.

IF IN EYES: Flush with plenty of water. Get medical attention.

IF ON SKIN: Wash immediately with plenty of soap and water.

IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFETY INQUIRIES, OR IN CASE OF FIRE, LEAKING, OR DAMAGED CONTAINERS, INFORMATION MAY BE OBTAINED BY CALLING 800-228-5635, EXT. 202.

DO NOT REUSE THIS CONTAINER.
DESTROY WHEN EMPTY.

[These statements are deleted when SVR packaging is used.]

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
(AND DOMESTIC ANIMALS)
WARNING**

HARMFUL IF SWALLOWED. MAY PRODUCE SEVERE IRRITATION OF EYES AND IRRITATION OF SKIN. AVOID BREATHING SPRAY MIST. AVOID CONTACT WITH SKIN AND EYES.

AVOID CONTAMINATION OF FEED AND FOOD-STUFFS.

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 F 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 barrier laminate or butyl rubber or nitrile rubber or Viton
- ✦ 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 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.

ENVIRONMENTAL HAZARDS

THIS PRODUCT IS TOXIC TO FISH. FOR TERRESTRIAL USES, 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 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 THROUGH DISPOSAL OF EQUIPMENT WASHWATERS.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

STORAGE AND DISPOSAL

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

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.
[or when packaged in SVR or sealed returnable containers]

This ECHO SYSTEM® container is the sole property of AgrEvo USA Company.

ECHO SYSTEM SVR and Sealed Container Return Procedure: This container is to be used for BETANEX Herbicide *only*. When this container is empty it must not be opened or discarded. Empty containers must be returned clean (*outside only*) to the place of purchase and can be refilled with BETANEX Herbicide *only* at an authorized refilling agent of AgrEvo USA Company.

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 barrier laminate, butyl rubber, nitrile rubber, or Viton
- ◆ Shoes plus socks
- ◆ Protective eyewear

When used as directed, BETANEX is selective against weeds in beets. Follow label directions carefully to avoid severe injury to beets. For best results spray weeds in the cotyledon stage which are actively growing.

GENERAL INFORMATION

Mixing the Spray: Make sure the Sprayer is CLEAN.

BETANEX emulsifiable concentrate formulation contains sufficient wetting agents for optimum coverage. Do not add additional wetting agents or other spray adjuvants. Add sufficient water to fill the lines. Then add the desired amount of BETANEX 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.

BETANEX broadens and enhances the control of troublesome weeds including the following:

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

USE PRECAUTIONS

DO NOT APPLY BETANEX OR THE TANK-MIX BETANEX + NORTRON SC TO SUGAR BEETS LATER THAN 75 DAYS PRIOR TO HARVEST.

DO NOT EXCEED A TOTAL OF 12 PINTS BETANEX OR THE TANK-MIX BETANEX + NORTRON SC PER ACRE PER SEASON.

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

BETANEX OR THE TANK-MIX BETANEX + NORTRON SC 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 (85° or over), bright days. When the air temperature is, or is likely to be, 85°F on the day of spraying, application should be made in the evening when the temperature is lower.
- ◆ Windy conditions or drought.
- ◆ Frost within 7 days following treatment.
- ◆ 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.

If extreme weather conditions are of short duration, delay spraying until the end of such a period.

DO NOT OVERTREAT: The use of higher than recommended rates may cause beet injury.

Do not spray while dew is present.

Rainfall 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.

Important: BETANEX or BETANEX + NORTRON SC tank-mix may cause temporary growth retardation and/or chlorosis or tip-burn on sugar beets. Beets usually resume normal growth within 10 days.

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

By Ground: Apply BETANEX at the rate of 2.0 to 3.0 pints per acre in 20 to 50 gallons of water broadcast basis. For band application, see Dosage Chart 1.

By Air: Apply BETANEX at the rate of 2.0 to 3.0 pints per acre using 5 to 15 gallons of spray per acre.

To control early germinating weeds, apply multiple (low rate) applications of BETANEX at 2.0 to 3.0 pints per acre broadcast equivalent or BETANEX plus NORTRON® SC tank-mix (see Chart 1 for broadcast rates) to sugar beets at any stage of growth. Rates over 2 pints per acre may cause injury to cotyledon-size beets. Apply the first spray when weeds are in the cotyledon stage. See Chart 2 for equivalent band rates. For band applications, apply in 5-10 gallons of water per acre.

Any weeds not completely controlled by the first treatment will usually be controlled by repeat applications. Repeat applications should be made 5 to 7 days after the preceding application. If the repeat application is delayed, full rate treatment as described above will be necessary.

TANK-MIX

BETANEX applied postemergence in a tank-mix with NORTRON® SC broadens and enhances the control of troublesome weeds versus BETANEX alone. Additional annual broadleaf weeds controlled with the tank-mix:

ANNUAL BROADLEAF WEEDS

Kochia* *Kochia scoparia*
Ladysthumb *Polygonum persicaria*
Pennsylvania smartweed *Polygonum pennsylvanicum*
*Spray kochia while in the rosette stage, less than one inch in diameter.

ANNUAL GRASS WEEDS CONTROLLED WITH THE TANK-MIX:

Annual bluegrass *Poa annua*
Canarygrass *Phalaris canariensis*

**CHART 1
DOSAGE CHART FOR MULTIPLE (LOW RATE)
BROADCAST APPLICATIONS
(Air as well as ground)**

Beet/Weed Stage	Pints/Acre Broadcast		
	BETANEX ALONE	BETANEX +	NORTRON SC
Cotyledon	2.0-3.0	1.5	0.25
2 leaf	2.0-3.0	2.0	0.33
4 leaf	2.0-3.0	3.0	0.5

- ♦ Application should begin at the cotyledon stage of weeds.
- ♦ Higher dosage rates could be required, depending on the advancement of the weed stage.
- ♦ Do not exceed 1.5 pt/acre when beets are at or below the cotyledon stage.

**CHART 2
BETANEX DOSAGE CHART FOR BAND APPLICATION**

Broadcast Equivalent	Band Width	Band Rate — Row Spacing (fluid ounces)				
		22"	24"	26"	28"	30"
1.5 pint/acre	7"	7.6	7.0	6.5	6.0	5.6
	10"	10.9	10.0	9.2	8.6	8.0
2 pints/acre	7"	10.2	9.3	8.6	8.0	7.5
	10"	14.5	13.3	12.3	11.4	10.7
3 pints/acre	7"	15.3	14.0	12.9	12.0	11.2
	10"	21.8	20.0	18.5	17.1	16.0
4.5 pints/acre	7"	22.9	21.0	19.4	18.0	16.8
	10"	32.7	30.0	27.7	25.7	24.0
6 pints/acre	7"	30.5	28.0	25.8	24.0	22.4
	10"	43.6	40.0	36.9	34.3	32.0
7.5 pints/acre	7"	38.2	35.0	32.3	30.0	28.0
	10"	54.5	50.0	46.2	42.9	40.0

NORTRON SC DOSAGE CHART FOR SPLIT (LOW RATE) BAND APPLICATIONS

Broadcast Equivalent	Band Width	Band Rate — Row Spacing (fluid ounces)				
		22"	24"	26"	28"	30"
0.25 pint/acre	5"	1.3	1.2	1.1	1.0	0.9
	10"	1.8	1.7	1.5	1.4	1.3
0.33 pint/acre	7"	1.7	1.5	1.4	1.3	1.2
	10"	2.4	2.2	2.0	1.9	1.8
0.50 pint/acre	7"	2.5	2.3	2.2	2.0	1.9
	10"	3.4	3.3	3.1	2.9	2.7

- ◆ Applications should begin at the cotyledon stage of weeds.
- ◆ Higher dosage rates should be required, depending on the advancement of the weed stage.

CONVENTIONAL APPLICATIONS

By Ground: Apply BETANEX at the rate of 4.5 to 7.5 pints per acre in 20 to 50 gallons of water broadcast basis. For band application, see dosage Chart 1.

By Air: Apply BETANEX at the rate of 4.5 to 7.5 pints per acre using 5 to 15 gallons of spray per acre.

Apply the 4.5 to 7.5 -pint rates only to sugar beets past the two-true leaf stage. Use the 7.5-pint rate only on well-established beets which are not under stress.

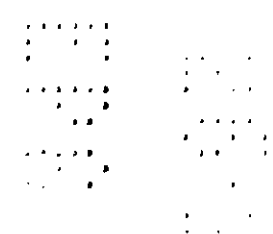
In order to avoid phytotoxic spray drift to non-target crops during application of BETANEX the following buffer zones should be observed:

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.

To avoid excessive phytotoxicity to fall-planted sugar beets south of the Tehachapi Mountains in California when temperatures are above 85°F, apply BETANEX at the rate of 1 pint per acre (broadcast equivalent). Evening applications are recommended. For further information, contact your County Agricultural Agent, Farm Advisor or AgrEvo USA Company.

Repeat Application of BETANEX: For control of later germinating weeds, make a second application of BETANEX. Use 4.5 to 6 pints of BETANEX. Allow at least 7 days between first and second applications. Apply when 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 beets are under stress as explained on the left panel.



IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond AgrEvo USA Company's control, it is impossible for AgrEvo USA Company to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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