

PM 25

45639-87

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A company of Hoechst and NOR-AM

Specimen Label

FOR AGRICULTURAL USE ONLY

Betamix®

HERBICIDE

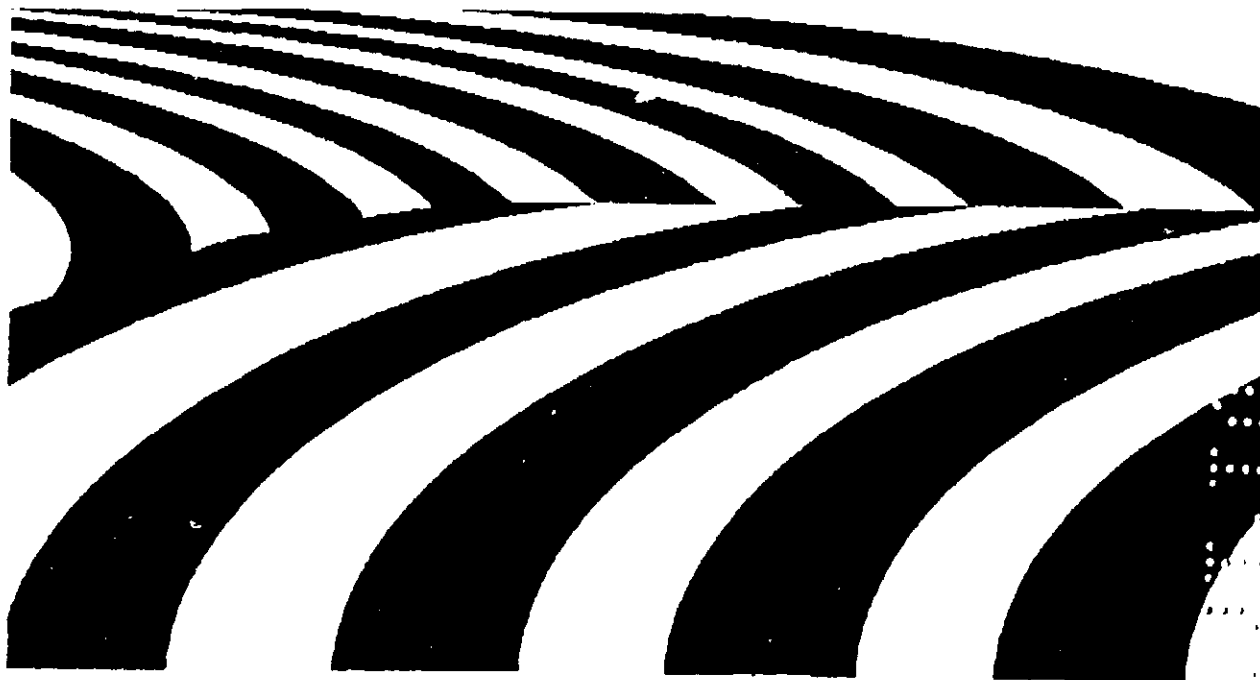
EPA Registration Number 45639-87

ACCEPTED
~~with COMMENTS~~
In EPA Letter Dated

FEB 9 1996

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

45639-87



ACTIVE INGREDIENTS:

| | |
|---------------------------|---------------|
| Phenmedipham* | 8.0% |
| Desmedipham** | 8.0% |
| INERT INGREDIENTS: | 84.0% |
| TOTAL | 100.0% |

Contains 1.3 lbs. active ingredient per gallon.
This product contains the toxic inert ingredient isophorone.

*3-methoxycarbonylamino-phenyl-3-methylcarbanilate
**Ethyl m-hydroxycarbanilate carbanilate (ester)

EPA Reg. No. 45639-87
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.

**DO NOT REUSE THIS CONTAINER.
DESTROY WHEN EMPTY.**

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

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.

**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 foodstuffs.

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:

- ♣ Coveralls over short-sleeved shirt and short pants
- ♣ Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or Viton
- ♣ Chemical-resistant footwear plus socks

- † Chemical-resistant headgear for overhead exposure
- † Chemical-resistant apron when cleaning equipment, mixing, or loading

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 PESTICIDE IS TOXIC TO FISH AND AQUATIC ORGANISMS. 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. DRIFT AND RUNOFF FROM TREATED AREAS MAY BE HAZARDOUS TO FISH AND AQUATIC ORGANISMS IN ADJACENT AQUATIC SITES. 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 containers]

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

ECHO SYSTEM SVR Return Procedure: Return the ECHO SYSTEM SVR container clean (outside only) and empty to the place of business from which the BETAMIX was purchased.

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 the 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 over short-sleeved shirt and short pants
- ♣ Chemical-resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or Viton
- ♣ Chemical-resistant footwear plus socks
- ♣ Chemical-resistant headgear for overhead exposure

GENERAL INFORMATION

When used as directed, BETAMIX is selective in 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. BETAMIX will control the following weeds:

| | |
|------------------------------------|--------------------------------|
| Annual sowthistle | <i>Sonchus oleraceus</i> |
| Black nightshade | <i>Solanum nigrum</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> |
| Green foxtail | <i>Setaria viridis</i> |
| Groundcherry | <i>Physalis lanceifolia</i> |
| Hairy nightshade | <i>Solanum sarrachoides</i> |
| Kochia | <i>Kochia scoparia</i> |
| London rocket | <i>Sisymbrium irio</i> |
| Nettleleaf goosefoot | <i>Chenopodium murale</i> |
| Yellow foxtail (pigeon grass)..... | <i>Setaria glauca</i> |
| Prostrate pigweed** | <i>Amaranthus gracizans</i> |
| Purslane | <i>Portulaca oleraceus</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> |

**Redroot pigweed and prostrate pigweed control will be improved with a tank mix of Betamix and Betanex in Eastern North Dakota and Minnesota (see chart 3).

USE PRECAUTIONS

DO NOT APPLY BETAMIX TO SUGAR BEETS LATER THAN 75 DAYS PRIOR TO HARVEST.
 DO NOT EXCEED A TOTAL OF 12 PINTS BETAMIX PER ACRE PER SEASON.
 DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.
 DO NOT ROTATE WITH CEREAL GRAIN CROPS FOR 120 DAYS FOLLOWING POST-EMERGENCE APPLICATION OF BETAMIX

BETAMIX 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° or over) bright days. When the air temperatures 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 of 7 days following treatment could cause beet injury.
- ◆ Windy conditions or drought
- ◆ Use of a preplant or proemergence 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: BETAMIX 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.

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.

MIXING THE SPRAY: Make sure the Sprayer is CLEAN.

BETAMIX 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 BETAMIX 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: Multiple (low rate) applications of BETAMIX 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, below, for broadcast rates. For broadcast applications with ground equipment, apply in 10-20 gallons of water per acre. Use 5-15 gallons of water per acre with aerial application. See Chart 2, below, 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 as described below will be necessary.

To avoid excessive phytotoxicity to fall-planted sugar beets south of the Tehachapi Mountains in California when temperatures are above 85°F, apply BETAMIX at the rate of 1- 1.5 pint per acre (broadcast equivalent). Evening applications are recommended.

For further information, contact your County Agricultural Agent, Farm Advisor or AgrEvo USA Company.

BETAMIX applied postemergence in a tank-mix with NORTRON SC broadens and enhances the control of troublesome weeds, in addition, provides control of Ladysthumb (*Polygonum persicaria*), Pennsylvania smartweed (*Polygonum pennsylvanicum*), Annual bluegrass (*Poa annua*) and Canarygrass (*Phalaris canariensis*).

CHART 1
DOSAGE CHART FOR MULTIPLE (LOW RATE) BROADCAST APPLICATIONS

| Weed Stage* | Pints/Acre Broadcast | | |
|-------------|----------------------|----------------------|--------|
| | BETAMIX ALONE | BETAMIX + NORTRON SC | |
| Cotyledon | 1.5-3.0 | 1.5 | + 0.25 |
| 2 leaf | 2.0-3.0 | 2.0 | + 0.33 |
| 4 leaf | 3.0-4.5 | 3.0 | + 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 1.5 pt./acre when sugarbeets are at the cotyledon stage.

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

CHART 2
BETAMIX DOSAGE CHART FOR BAND APPLICATION

| Broadcast Equivalent | Band Width | Band Rate -- Row Spacing (fluid ounces) | | | |
|----------------------|------------|---|------|------|------|
| | | 22" | 24" | 28" | 30" |
| 1.50 pints/acre | 5" | 5.5 | 5.0 | 4.3 | 4.0 |
| | 7" | 7.6 | 7.0 | 6.0 | 5.6 |
| 2.0 pints/acre | 5" | 7.3 | 6.7 | 5.7 | 5.3 |
| | 7" | 10.2 | 9.3 | 8.0 | 7.5 |
| 3.0 pints/acre | 5" | 10.9 | 10.0 | 8.6 | 8.0 |
| | 7" | 15.3 | 14.0 | 12.0 | 11.2 |
| 4.5 pints/acre | 5" | 16.4 | 15.0 | 12.9 | 12.0 |
| | 7" | 22.9 | 21.0 | 18.0 | 16.8 |
| 6.0 pints/acre | 5" | 21.8 | 20.0 | 17.1 | 15.0 |
| | 7" | 30.5 | 28.0 | 24.0 | 22.4 |
| 7.5 pints/acre | 5" | 27.3 | 25.0 | 21.4 | 20.0 |
| | 7" | 38.2 | 35.0 | 30.0 | 28.0 |

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

| 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 BETAMIX 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 2(previous page).

By Air: Apply BETAMIX 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 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 non-target crops during application of BETAMIX, 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 BETAMIX: For control of later germinating weeds, make a second application of BETAMIX. Use 4.5 to 6 pints of BETAMIX. 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 on the previous page, the General Information section.

TANK MIXES 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.

Betamix 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 |
| Betanex | see chart 3 |

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

Chart 3

Dosage Chart for Tank Mixes of Betamix and Betanex

| Desired Rate (Pints/acre Broadcast) | Betamix + Betanex (Pints/acre Broadcast) |
|--|---|
| 1.13 | 0.57 + 0.57 |
| 1.25 | 0.63 + 0.63 |
| 1.33 | 0.67 + 0.67 |
| 1.50 | 0.75 + 0.75 |
| 1.75 | 0.88 + 0.88 |
| 2.25 | 1.13 + 1.13 |
| 3.25 | 1.63 + 1.63 |
| 5.0 | 2.50 + 2.50 |

Stinger is a registered trademark of DowElanco.

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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