AgrEvo<sup>™</sup>

**Specimen Label** 

1. 24

A company of Hoechst and NOR-AM

# FOR AGRICULTURAL USE ONLY



41/JC 45/337-811

ACCEPTED with COMMENTS In EPA Letter Dated: HERBICIDE

**EPA Registration Number 45639-87** 

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For Agricultural Use Only



SUGAR BEET HERBICIDE

Postemergence Herbicide for Control of Weeds in Sugar Beets

#### **ACTIVE INGREDIENTS:**

Phenmedipham\* Desmedipham\*\* INERT INGREDIENTS: 8.0% 8.0% 84.0% 100.0%

Contains 1.3 lbs. active ingredient per gallon. This product contains the toxic inert ingredient isophorone. \*3-methoxycarbonylaminophenyl-3-methylcarbanilate \*\*Ethyl <u>m</u>-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, LEAK-ING, 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 AP-PLY DIRECTLY TO WATER, OR TO ARFAS 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 ORGAN-ISMS IN ADJACENT AQUATIC SITES. DO NOT CON-TAMINATE WATER THROUGH DISPOSAL OF EQUIPMENT WASHWATERS.

PHYSICAL OR CHEMICAL HAZARDS DO NOT USE OR STORE NEAR HEAL OR OPEN FLAME.

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### 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<sup>®</sup> 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**

BETAMIX® is a selective postemergence herbicide for use in sugar beets (including beets grown for seeds) for the control of the following weeds:

Annual sowthistle	Sonchus oleraceus
Black nightshade	Solanum nigrum
Coast fiddleneck	Amsinckia intermedia
Common chickweed	Stellaria media
Common lambsquarters	Chenopodium album
Common ragweed	Ambrosia artemisiifolia
Green foxtail	Setaria viridis
Groundcherry	Physalis lanceifolia
Hairy nightshade	Solanum sarrachoides
Kochia*	Kochia scoparia
London rocket	Sisymbrium irio
Nettleleaf goosefoot	Chenopodium murale
Yellow foxtail (pigeon grass)	Setaria glauca
Prostrate pigweed	Amaranthus gracizans
Purslane	Portulaca oleraceus
Redroot pigweed	Amaranthus retroflexus
Shepherdspurse	Capsella bursa-pastoris
Wild buckwheat	Polygonum convolvulus
Wild mustard	Brassica kaber
*Spray kochia while in the rosette stage results, spray when the weeds are at the	e, less than 1° in diameter. For best e two-leaf stage.

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 FOLLOW-ING CONDITIONS:

- Rapid climatic changes from cool, overcast days, to hot (85° or over), bright days
- Windy conditions or drought
- Frost within seven days following treatment
- Use of a preplant or pre-emergence 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. If BETAMIX applications must be made on days with extremetemperature and/or brightness, delay spraying until evening.

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 adjagent crops which • may be injured by spray drift.

**IMPORTANT:** BETAMIX may cause temporary growth refardation and/or chlorosis or tipburn on sugar beets. Beets usually resume normal growth within 10 days.

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#### 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.

### FULL RATE APPLICATIONS

When used as directed, BETAMIX is selective in beets past the two-true leaf stage. Beets may be severely injured if treated before the two-true leaf stage. 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. Best results are obtained when the weeds are actively growing and are not under water or heat stress.

**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 1.

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 beets which are not under 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 OV MILES PER HOUR. AVOID APPLICATIONS W CONDITIONS FAVOR DRIFT.	

For Aerial Applications: 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 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 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 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 previous page, the General Information section.

**SEQUENTIAL/SPLIT (LOW RATE) APPLICATIONS: By Ground:** Apply BETAMIX 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 BETAMIX 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 sequential/split (low rate) applications of BETAMIX at 2.0 to 3.0 pints per acre broadcast equivalent or BETAMIX plus NORTRON<sup>®</sup> SC tank-mix (see Chart 2 for broadcast rates) to sugar beets at any stage of growth. Rates over 2 pints per acre may cause injury to cotyledonsize beets. Apply the first spray when weeds are in the cotyledon stage. See Chart 1 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: BETAMIX applied postemergence in a tank-mix with NORTRON SC broadens and enhances the control of troublesome weeds, including the following:

#### ANNUAL BROADLEAF 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
Kochia* Kochia scoparia
Ladysthumb Polygonum persicaria
London rocket Sisymbrium irio
Nettleleaf goosefoot Chenopodium murale
Pennsylvania smartweed Polygonum pennsylvanicum
Prostrate pigweed Amaranthus gracizans
Purslane Portulaca oleraceus
Redroot pigweed Amaranthus retroflexus
Shepherdspurse Capsella bursa-pastoris
Wild buckwheat Polygonum convolvulus
Wild mustard Brassia kaber
*Spray kochia while in the rosette stage, less than one inch in
diaméter.
ANNUAL GRASS WEEDS
Annual bluegrass Poa annual
Canarygrass Phalaris canariensis
Green foxtail
Yellow foxtail (pigeon grass) Setaria glauca
See Chart 1 for equivalent band rates. See Chart 2 for
broadcast rates.

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CHART 1 **BETAMIX DOSAGE CHART FOR BAND APPLICATIONS** 

	Band Width	Band Rate — Row Spacing		
Broadcast Equivalent		22*	28"	30"
1.5 pints/acre	5*	5.5 fl. oz.	4.3 fl. oz.	4.0 fl. oz.
•	7*	7.6 fl. oz.	6.0 fl. oz.	5.6 fl. oz.
2 pints/acre	5"	7.3 fl. oz.	5.7 fl. oz.	5.3 fl. oz.
•	7"	10.2 fl. oz.	8.0 fl. oz.	7.5 fl. oz.
3 pints/acre	5"	10.9 fl. oz.	8.6 fl. oz.	8.0 fl. oz.
•	7"	15.3 fl. oz.	12.0 fl. oz.	11.2 fl. oz.
1.5 pints/acre	5"	16.4 fl. oz.	12.9 fl, oz.	12.0 fl. oz.
	7*	22.9 fl. oz.	18.0 fl. oz.	16.8 fl. oz.
pints/acre	5*	21.8 fl. oz.	17.1 fl. oz.	16.0 fl. oz.
•	7"	30.5 fl. oz.	24.0 fl. oz.	22.4 fl. oz.
7.5 pints/acre	5"	27.3 fl. oz.	21.4 fl. oz.	20.0 fl. oz.
•	7*	38.2 fl. oz.	30.0 fl. oz.	28.0 fl. o <b>z</b> .

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

	Band Width	Band Rate — Row Spacing		
Broadcast Equivalent		22"	28*	30"
0.25 pint/acre	5 <b>*</b>	0.9 fl. oz.	0.7 fl. oz.	0.7 fl. oz.
	7*	1.3 fl. oz.	1.0 fl. oz.	0.9 fl. oz.
0.33 pint/acre	5*	1.2 fl. oz.	0.9 fl. oz.	0.9 fl. oz.
	7*	1.7 fl. oz.	1.3 fl. oz.	1.2 fl. oz.
0.5 pint/acre	5 <b>*</b>	1.8 fl. oz.	1.4 fl. oz.	1.3 fl. oz.
	7 <b>*</b>	2.5 fl. oz.	2.0 fl. oz.	1.9 fl. oz.

### CHART 2 DOSAGE CHART FOR SPLIT (LOW RATE) BROADCAST APPLICATIONS

	Pints/Acre Broadcast		
Sugar Beet Stage	BETAMIX ALONE	BETAMIX + 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	

### **POSTEMERGENCE USE PRECAUTIONS**

NORTRON<sup>®</sup> SC + BETAMIX MAY CAUSE SUGAR BEET INJURY OR STAND LOSS IF THE CROP IS UN-DER STRESS FROM ONE OR MORE OF THE FOL-LOWING 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 evening when the temperature is lower.
- Frost within seven days following treatment;
- Windy or drought conditions;
- Use of a preplant or preemergence herbicide or other chemicals;
- Insect or disease injury;
- Close cultivation.

If stress conditions are present, delay application until crop has recovered.

Do not apply BETAMIX + NORTRON SC tank-mix to sugar beets later than 75 days prior to harvest.

DO NOT OVERTREAT: The use of higher-than-recommended rates may cause beet injury and/or carry over problems.

Do not spray while dew is present. • • • •

Rainfall or sprinkler irrigation within thours of application may reduce weed kill.

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

IMPORTANT: This tank-mix may cause temporary... growth retardation and/or chlorosis or tip-burn of ... sugar beets. Sugar beets usually resume hormal.... growth within 10 days.

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#### 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.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABIL-ITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATE-MENTS MADE ON THIS LABEL. No agent of AgrEvo USACompany is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. AgrEvo USACompany disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSS-ES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT AGREVO USA COMPANY'S ELECTION, THE REPLACEMENT OF PRODUCT.

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