

SPECIMEN LABEL**ACCEPTED**

FEB 24 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 45639-86

FOR AGRICULTURAL USE ONLY**Betamix®****SUGAR BEET HERBICIDE**

Postemergence Herbicide for Control of Weeds in Sugar Beets

ACTIVE INGREDIENTS:

Phenmedipham*

Desmedipham**

INERT INGREDIENTS:

TOTAL

Contains 1.3 lbs. active ingredient per gallon

This product contains the toxic inert ingredient isophorone

*3-methoxycarbonylamidophenyl-3-methylcarbamate

**Ethyl m-hydroxycarbamate carbamate 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 immediately. Do not induce vomiting unless directed to do so by a physician.

NOTE TO PHYSICIAN: Ethyl m-hydroxycarbamate carbamate ester. A-111111.

IF IN EYES: Flush with plenty of water for at least 15 minutes.

IF ON SKIN: Wash with plenty of soap and water for at least 15 minutes.

DO NOT REUSE THIS CONTAINER. DESTROY WHEN EMPTY.

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

SEE OTHER PANELS FOR ADDITIONAL PRECAUTIONS

NOR-AMNORAM CHEMICAL COMPANY
A Sandoz CompanyAGRICULTURAL DIVISION
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Wilmington, DE 19804**NET CONTENTS:**U.S. Patent No. 3,814,975
U.S. Patent No. 3,812,820

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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 NOR-AM Chemical 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.

IN CASE OF FIRE, LEAKY OR DAMAGED CONTAINERS, OR OTHER EMERGENCY, REPORT AT ONCE BY TOLL-FREE TELEPHONE TO: 800-424-9300.

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	<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>
Pigeon grass (yellow foxtail)	<i>Setaria glauca</i>
Prostrate pigweed	<i>Amaranthus gracilis</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>

* Spray kochia while in the rosette stage, less than 1" in diameter. For best results, spray when the weeds are at the 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.

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 (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 extreme temperature 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 adjacent crops which may be injured by spray drift.

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

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 OVER 10 MILES PER HOUR. AVOID APPLICATIONS WHEN 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 NOR-AM Chemical 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.

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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® 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 cotyledon-size 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	<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>
Kochia*	<i>Kochia scoparia</i>
Ladysthumb	<i>Polygonum persicaria</i>
London rocket	<i>Sisymbrium irio</i>
Nettleleaf goosefoot	<i>Chenopodium murale</i>
Pennsylvania smartweed	<i>Polygonum pennsylvanicum</i>
Prostrate pigweed	<i>Amaranthus gracilis</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>

*Spray kochia while in the rosette stage, less than one inch in diameter.

ANNUAL GRASS WEEDS

Annual bluegrass	<i>Poa annua</i>
Canarygrass	<i>Phalaris canariensis</i>
Green foxtail	<i>Setaria viridis</i>
Pigeon grass (Yellow foxtail)	<i>Setaria glauca</i>

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

Broadcast Equivalent	Band Width	Band Rate — Row Spacing		
		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.
4.5 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.
6 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. oz.

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

Broadcast Equivalent	Band Width	Band Rate — Row Spacing		
		22"	28"	30"
0.25 pint/acre	5"	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"	1.8 fl. oz.	1.4 fl. oz.	1.3 fl. oz.
	7"	2.5 fl. oz.	2.0 fl. oz.	1.9 fl. oz.

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

Sugar Beet Stage	Pints/Acre Broadcast		
	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® SC + BETAMIX MAY CAUSE SUGAR BEET INJURY OR STAND LOSS 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 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 6 hours 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 on sugar beets. Sugar beets usually resume normal 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 NOR-AM Chemical Company's control, it is impossible for NOR-AM 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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