

Reg # 45639-87

PM-25

137

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

(A)  United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC, 20460	☐ Registration ☐ Amendment ☒ Other	OPP Identifier Number 190116
	Application for Pesticide:	

Section I		
1. Company/Product Number 45639-87	2. EPA Product Manager Robert Taylor	3. Proposed Classification ☒ None ☐ Restricted
4. Company/Product (Name) BETAMIX® EC Herbicide	5. Name and Address of Applicant (Include ZIP Code) NOR-AM Chemical Company Little Falls Centre One 2711 Centerville Road Wilmington, DE 19808 ☒ Check if this is a new address	
6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____		

Section II	
☐ Amendment - Explain below ☐ Resubmission in response to Agency letter dated _____ ☒ Notification - Explain below	☐ Final printed labels in response to Agency letter dated _____ ☐ "Me Too" Application ☐ Other - explain below

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of label amended as per PR Notice 93-3:
Environmental Hazards Section modified.

NOTIFICATION LABEL NOT REVIEWED PER PR NOTICE 93-3
DATE 7/1/93

Section III			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging ☐ Yes* ☐ No	Unit Packaging ☐ Yes ☐ No If "Yes," Unit Package wgt. _____ No. per container _____	Water Soluble Packaging ☐ Yes ☐ No If "Yes," Package wgt. _____ No. per container _____	2. Type of Container ☐ Metal ☐ Plastic ☐ Glass ☐ Paper ☐ Other (Specify) _____
* Certification must be submitted.			
3. Location of Net Contents Information ☐ Label ☐ Container	4. Size(s) of Retail Container	5. Location of Label Directions ☐ On Label ☐ On Labeling accompanying product	
6. Manner in Which Label Is Affixed To Product ☐ Lithograph ☐ Paper glued ☐ Stenciled ☐ Other _____			

Section IV		
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Lesley Palmer Czocho, Ph.D.	Title Registration Project Manager	Telephone No. (include Area Code) 302/892-3049

Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Registration Project Manager	
4. Typed Name Lesley Palmer Czocho	5. Date 6/8/93	

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SPECIMEN LABEL

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NOTIFICATION
LABEL NOT REVIEWED
PER FR NOTICE 88-4

DATE

7/1/93

FOR AGRICULTURAL USE ONLY

Betamix[®]

SUGAR BEET HERBICIDE

Postemergence Herbicide for Control of Weeds In Sugar Beets

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

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

KEEP OUT OF REACH OF CHILDREN WARNING — AVISO 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.

SEE OTHER PANELS FOR ADDITIONAL PRECAUTIONS



NOR-AM

NOR-AM CHEMICAL COMPANY

A Schering-Boehr Company

AGRI-BUSINESS DIVISION
3509 Silverside Road, P.O. Box 7495
Wilmington, DE 19803

NET CONTENTS

U.S. Patent No. 3,404,975

U.S. Patent No. 3,692,820

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS 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.

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 WASH WATERS.

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.

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

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>
Hairy nightshade	<i>Solanum sarachoides</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>
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 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>

* 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.

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.

REENTRY STATEMENT: Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Reentry into treated areas is prohibited until leaves are completely dry.

Do not enter treated areas without protective clothing.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

WARNING: Area treated with BETAMIX® on (date of application). Do not enter without appropriate protective clothing until leaves are completely dry. In case of accidental exposure see Statement of Practical Treatment on the label.

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. Best results are obtained when the weeds are actively growing and are not under water or heat stress.

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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.

RATE OF APPLICATION

By Ground: Apply BETAMIX at the rate of 4.5 to 7.5 pints in 20 to 50 gallons of water broadcast basis. For band application, see dosage chart 2.

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.

SPLIT (LOW RATE) APPLICATIONS: Split (low rate) applications of BETAMIX may be applied to sugar beets to control early germinating weeds. The first spray must be applied when the earliest emerging weeds have reached cotyledon size. See Chart 1, below, for broadcast rates. See Chart 2, below, for equivalent band rates. For band applications, apply in 5-10 gallons of water per acre. 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 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 sarachoides*
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 gracilis*
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, less than one inch in diameter.

ANNUAL GRASS WEEDS

Annual bluegrass *Poa annua*
Canarygrass *Phalaris canariensis*
Green foxtail *Setaria viridis*
Pigeon grass (Yellow foxtail) *Setaria glauca*

See Chart 1, below, for broadcast rates. See Chart 2 for equivalent band rates.

CHART 1
DOSAGE CHART FOR BROADCAST APPLICATION

Sugar Beet Stage	Pints/Acre Broadcast	
	BETAMIX	BETAMIX + NORTON SC
Cotyledon	1.5	1.5 + 0.25
2 leaf	2.0	2.0 + 0.33
4 leaf	3.0	3.0 + 0.5

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**CHART 2
BETAMIX DOSAGE CHART FOR BAND APPLICATION**

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 BAND APPLICATION

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.

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.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NOR-AM Chemical Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. UNDER NO CIRCUMSTANCES SHALL NOR-AM CHEMICAL COMPANY BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES, OR DAMAGE 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 NOR-AM'S ELECTION, THE REPLACEMENT OF PRODUCT.

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AGRI-BUSINESS DIVISION
3509 Silverside Road, P.O. Box 7495
Wilmington, DE 19803



A Schering Berlin Company

June 8, 1993

Mr. Robert J. Taylor (PM 25)
Document Processing Desk
Office of Pesticide Programs
Room 266A, Crystal Mall #2
1921 Jefferson Davis Hwy
Arlington, VA 22202

NOR-AM Chemical Company

Little Falls Centre One
2711 Centerville Road
Wilmington, DE 19808
Telephone: (302) 892-3000
Telefax: (302) 892-3013

Dear Mr. Taylor:

**RE: PR NOTICE 93-3 AS IT PERTAINS TO BETAMIX® EC,
EPA REGISTRATION NO. 45639-87, OPP I.D. NO. 190116
NOTIFICATION OF LABEL AMENDMENT**

NOR-AM Chemical Company is hereby complying with PR Notice 93-3 and is submitting a revised label for BETAMIX EC via this notification action, as per the instructions in the Notice.

Specifically, under the Environmental Hazards Section, the wording has changed as follows: The Statement: "Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark." has been replaced with the statement: 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."

A copy of the amended label with the changes highlighted is provided in Attachment 1. A copy of the current label (approved by EPA 3/2/93) is provided in Attachment 2. Five copies of the amended label, unhighlighted, are also included, along with the pesticide application form, OPP Identifier Number 190116.

If you have any questions about this notification, please contact me at the above address or telephone 302/892-3049. Thank you for your attention to this amendment.

Sincerely,

Lesley Palmer Czocho, Ph.D.
Registration Project Manager

LC527/dm

Enclosures

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