

PM 25 45637-156

1995

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 45637-156	DATE OF ISSUANCE JAN 14 1994
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT BETANIX 70WP	

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
 (Under the Federal Insecticide, Fungicide,
 and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

NOR-AM Chemical Co.
 P.O. Box 7495
 3509 Silverside Rd.
 Wilmington, DE 19803

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(7) and sec. 4 and the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment.
 - a. Add the phrase "EPA Registration No. 45637-156".
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

This acceptance of your label does not relieve you of any obligation to comply with the Worker Protection Standard (WPS). Under the new labeling regulations at 40 CFR part 155, subpart C, 155.20(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1991, without amended labeling accepted by the Agency.

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ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE JAN 14 1994
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If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

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SPECIMEN LABEL

Approved
for use in
the State of Michigan

1981 4 1091

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

45639-156

FOR AGRICULTURAL USE ONLY

Betamix® 70WP

SUGAR BEET HERBICIDE

Postemergence Herbicide for Control of Weeds in Sugar Beets

ACTIVE INGREDIENT:

Phermedipham* 35.0%

Desmedipham** 35.0%

INERT INGREDIENTS: 30.0%

TOTAL 100.0%

*3-methoxycarbonylamino-phenyl-3-methylcarbanilate

**Ethyl m-hydroxycarbanilate carbanilate (ester)

EPA Reg. No. 45639-

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

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with plenty of water.

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

 **NOR-AM**

NOR-AM CHEMICAL COMPANY
A Schering-Plough Company

AGRIBUSINESS DIVISION
3509 SilverSide Road, PO Box 7495
Wilmington, DE 19803

NET CONTENTS:

U.S. Patent No. 3,401,975
U.S. Patent No. 3,692,820

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS CAUTION

AVOID CONTACT WITH SKIN AND EYES. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS.

ENVIRONMENTAL HAZARDS

Do not apply directly to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

Storage: Store in original container and keep closed. Store in a cool, dry place.

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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® WP is a selective postemergence herbicide for use in sugar beets (including beets grown for seeds) for 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*), Kochia* (*Kochia scoparia*), London rocket (*Sisymbrium irio*), Nettleleaf goosefoot (*Chenopodium murale*), Pigeon grass (yellow foxtail) (*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, less than 1" in diameter. For best results, spray when the weeds are at the two-leaf stage.

USE PRECAUTIONS

DO NOT APPLY BETAMIX WP TO SUGAR BEETS LATER THAN 75 DAYS PRIOR TO HARVEST.

DO NOT EXCEED A TOTAL OF 2.8 LBS. BETAMIX WP PER ACRE PER SEASON.

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

BETAMIX WP 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.
- ▲ 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 WP 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 WP may cause temporary growth retardation and/or chlorosis or tip-burn 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:

CAUTION. Area treated with BETAMIX® WP 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 WP is selective in sugar 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.

Mixing the Spray: Make sure the Sprayer is CLEAN. BETAMIX WP requires the addition of a surfactant/adjuvant for weed control. Add most of the desired water volume and start agitation. Completely suspend all desired BETAMIX WP in the water before adding surfactant/adjuvant and remaining water. Both mechanical and bypass agitation is necessary. The surfactants/adjuvants listed in the chart below were effective in the areas shown. Other surfactants/adjuvants have either not been tested or performance was not satisfactory.

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Surfactant/Adjuvant	Application
SCOIL (Agsco) + COMP-AD (Simplor) (North Dakota and Minnesota)	Add COMP-AD at 1% volume/volume. Then add SCOIL at 1.5 pints/acre.
VALENT X-77 (Valent) (All states)	Add VALENT X-77 at 1% volume/volume in all states except California. In California add VALENT X-77 at 0.5% volume/volume.
SYLGARD 309 (Dow-Corning) (All states except Oregon and Idaho)	Add SYLGARD 309 at 0.4% volume/volume.
AGRI-DEX (Helena) (California)	Add AGRI-DEX at 1 quart/acre.
R-11 (Wilbur Ellis) (Oregon, Washington, and Montana)	Add R-11 at 1% volume/volume.
CROP OIL CONCENTRATE (Rigo) (Michigan and Ohio)	Add CROP OIL CONCENTRATE at 1 quart/acre.

Always spray immediately after preparing the spray solution. Prepare only enough spray solution to last less than four hours.

Incompatibilities will sometimes occur between BETAMIX WP and surfactants/adjuvants, due to conditions such as extreme water hardness or temperature. If in question, prepare a small test mixture of spray components in a clean container beforehand.

RATE OF APPLICATION—By Ground: Apply BETAMIX WP at a rate of 1.0–1.8 lb. in 20 to 50 gallons of water per acre broadcast basis. For band application, see the dosage chart. **BE CERTAIN TO ADD AN APPROPRIATE SURFACTANT/ADJUVANT (FROM ABOVE CHART).**

DOSAGE CHART FOR BAND APPLICATION

Band Rate (oz./acre) — Row Spacing

Broadcast Equivalent	Band Width	22"	28"	32"
0.5 lb./acre	5"	1.8	1.4	1.3
	7"	2.5	2.0	1.8
0.6 lb./acre	5"	2.2	1.7	1.5
	7"	3.1	2.4	2.1
0.7 lb./acre	5"	2.5	2.0	1.8
	7"	3.6	2.8	2.5
0.9 lb./acre	5"	3.3	2.6	2.3
	7"	4.6	3.6	3.2
1.0 lb./acre	5"	3.6	2.9	2.5
	7"	5.1	4.0	3.5
1.4 lb./acre	5"	5.1	4.0	3.5
	7"	7.1	5.6	4.9
1.8 lb./acre	5"	6.5	5.1	4.5
	7"	9.2	7.2	6.3

RATE OF APPLICATION—By Air: Apply BETAMIX WP at a rate of 1.0–1.8 lb. in 5–15 gallons of spray per acre. **BE CERTAIN TO ADD AN APPROPRIATE SURFACTANT/ADJUVANT (FROM ABOVE CHART).**

In order to avoid phytotoxic spray drift to non-target crops during application of BETAMIX WP, 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 in Arizona and South of the Tehachapi Mountains in California when temperatures are above 85°F, apply BETAMIX WP at the rate of 0.9 pints 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 WP: For control of later germinating weeds, make a second application of BETAMIX WP. Use 1.0–1.4 lb. per acre. **BE CERTAIN TO ADD AN APPROPRIATE SURFACTANT/ADJUVANT (FROM ABOVE CHART).** Allow at least seven days between first and second applications. Apply when sugar beets have at least four 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 left panel.

SPLIT (LOW RATE) APPLICATIONS: (All Sugar Beet Areas Except California) Split (low rate) applications of BETAMIX WP may be applied at a rate of 0.5–0.7 lb. in 5–10 gallons of water/acre broadcast equivalent. For band applications, see the dosage chart. **BE CERTAIN TO ADD AN APPROPRIATE SURFACTANT/ADJUVANT (FROM ABOVE CHART).** BETAMIX WP may be applied to sugar beets at any stage of growth when necessary to control early germinating, difficult-to-control weeds. The first spray must be applied when the earliest emerging weeds have reached cotyledon size.

Any weeds which are not completely controlled by the first treatment will usually be checked and controlled by repeat applications. The following application should be made 5–7 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.

SPLIT APPLICATIONS—CALIFORNIA: Split applications of BETAMIX WP at 0.6–1.4 lb. per acre broadcast equivalent may be made when the sugar beets have at least two true leaves.

Use the lower rate when temperatures are above 85°F or the crop is under stress. Allow four to seven days between applications.

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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