

45639-54 1 of 10
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SUPPLEMENTAL LABELING

ACCEPTED
JAN 6 1986
EPA Reg. No. 45639-54

Antor[®] 4ES

EMULSIFIABLE SOLUTION
(CONTAINS 4 POUNDS ANTOR PER GALLON)

EPA Reg. No. 45639-54

This labeling must be in possession of the user at the time of pesticide application. All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

WEED CONTROL IN RED BEETS AND SPINACH
(ONLY FOR BEETS INTENDED FOR PROCESSING)
DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read entire Directions for Use and Disclaimer of Warranties before using this product.

NOR-AM
NOR-AM CHEMICAL COMPANY
3509 Silverside Road, P.O. Box 7495
Wilmington, DE 19803

(AND FOR BEETS GROWN FOR SEED)

GENERAL INFORMATION

Antor[®] 4ES is a selective soil-applied herbicide for use in red beets and spinach. It can be applied either preplant incorporated or preemergence. The seedbed should be firm, fine and free of clods and trash. When applied preemergence, Antor[®] 4ES requires rainfall or irrigation prior to weed germination for optimum weed control. Similarly, when applied preplant incorporated, moisture in the form of rainfall, irrigation or existing soil moisture must be available to activate the product. When dry weather conditions prevail or furrow irrigation is used, preplant incorporation of Antor[®] 4ES is recommended for best results.

WEED SPECIES CONTROLLED: ANNUAL GRASS WEEDS

- Barnyardgrass (watergrass)**
Echinochloa crus-galli
- Yellow foxtail** *Setaria glauca*
- Green foxtail** *Setaria viridis*
- Giant foxtail** *Setaria faberi*
- Foxtail millet** *Setaria italica*
- Wild oats** *Avena fatua*
- Canarygrass** *Phalaris canariensis*
- Johnsongrass (seedling)**
Sorghum halepense
- Large crabgrass** *Digitaria sanguinalis*
- Italian ryegrass (annual)**
Lolium multiflorum
- Broadleaf signalgrass**
Tracharia platyphylla
- Witchgrass** *Panicum capillare*
- Jungle rice** *Echinochloa colonum*
- (1) Panicum**
Panicum dichotomiflorum

ANNUAL BROADLEAF WEEDS

- Redroot pigweed**
Amaranthus retroflexus
- Prostrate pigweed**
Amaranthus blitoides
- Spiny pigweed**
Amaranthus spinosus
- Annual sowthistle**
Sonchus oleraceus
- Sibara** *Sibara virginica*
- Henbit** *Lamium amplexicaule*
- Smallflower galinsoga**
Galinsoga parviflora
- Hairy galinsoga** *Galinsoga ciliata*
- Groundcherry** *Physalis longifolia*
- Shepherdspurse**
Capsella bursa-pastoris
- Pineappleweed**
Matricaria matricarioides

SPRAY EQUIPMENT

Apply Antor[®] 4ES alone or in tank mixes using standard low pressure (20-50 psi) spray equipment. The equipment should be carefully calibrated before use and checked frequently during application to ensure that it is functioning properly. Uniformly apply the recommended rates. Use a spray volume of 20 to 40 gallons per acre broadcast basis. Use proportional amounts for band spraying. See section on Band Applications on the container label for calculations.

MIXING THE SPRAY

For Antor[®] 4ES alone, add 1/4 to 1/2 the total amount of water to the tank. Then add the required amount of Antor[®] 4ES and the remaining quantity of water with the bypass agitator running. When tank-mixing Antor[®] 4ES with flowable formulations, mix the proper amount of flowable formulation into half the required amount of water in the spray tank with the agitator running. Add the required amount of Antor[®] 4ES and then add the remaining required amount of water. Before tank-mixing with other herbicides, refer to the specific product labels for additional mixing directions.

ROTATIONAL CROPS

Crops, except wheat, may be rotated at 3 months post application. Wheat may be planted 9 months after application.

METHOD OF APPLICATION Preplant Incorporated

In arid regions where furrow irrigation is practiced or where the rainfall pattern is erratic, soil incorporation of Antor[®] 4ES is required to provide optimum weed control.

Incorporation immediately after treatment is not required but must be done prior to weed germination. Use a hooded-power or ground-driven rotary tiller, rolling cultivator, or similar equipment properly adjusted to uniformly incorporate Antor[®] 4ES to a depth of 1 to 2 inches. Deeper incorporation may reduce effectiveness.

Preemergence

Preemergence application of Antor[®] 4ES is recommended where sprinkler irrigation is used for crop germination and where rainfall can be depended on to activate the product.

Apply Antor[®] 4ES to the soil surface at time of planting or shortly after, but prior to weed germination. One-half inch of rainfall or irrigation is usually adequate for activation. It is important that the top 2 inches of soil be thoroughly wetted.

RED BEET

Do not use Antor[®] 4ES or Antor[®] 4ES tank mixes on red beets within 75 days of harvest.

Apply Antor[®] 4ES preplant incorporated or preemergence using rates recommended in Dosage Table 1.

DOSAGE TABLE 1 (RED BEETS) ANTOR[®] 4ES ALONE

Soil Texture	Broadcast Rate of Antor [®] 4ES Per Acre ⁽¹⁾
Coarse:	
Loamy sands and sandy loams	2-3 qts.
Medium/Fine:	
Loams, silt loams, clay loams and clays containing less than 5% organic matter	3-4 qts.
Fine:	
Clay loams and clays containing more than 5% organic matter	4-6 qts.

⁽¹⁾ Within each soil texture category use the higher rate on the finer textured soils and/or where shepherdspurse or groundcherry is expected to be a problem.

ANTOR® 4ES + PYRAMIN[®](1) TANK-MIX

A tank mix of Antor® 4ES with Pyramin® FL may be used in red beets to control a broader spectrum of weeds. In addition to the weeds controlled by Antor® 4ES alone, this mixture controls:

Common ragweed *Ambrosia artemisiifolia*
 Wild mustard *Brassica kaber*
 Pennsylvania smartweed *Polygonum pensylvanicum*
 Fanweed (stinkweed) *Thlaspi arvense*
 Common lambsquarters *Chenopodium album*
 Common purslane *Portulaca oleracea*
 Nettleleaf goosefoot *Chenopodium murale*

Apply this tank-mix preemergence using rates recommended in Dosage Table 2. Do not use this mixture under conditions where Pyramin FL alone is not recommended. Before use, read the Pyramin FL label for additional information and precautions.

(1) Pyramin® is a registered trademark of BASF Aktiengesellschaft.

DOSAGE TABLE 2 (RED BEETS) ANTOR® 4ES + PYRAMIN® FL TANK-MIX

Soil Texture	Broadcast Rate Per Acre	
	Antor® 4ES (qts.)	Pyramin® FL (qts.)
Coarse:		
Sandy loams only	2	3
Medium:		
Loams, silt loams and clay loams containing less than 3% organic matter	2 to 3 ⁽¹⁾	3
Fine:		
Clay loams and clays containing more than 3% organic matter	3	3

(1) Use the higher rate on clay loam soils.

SPINACH

Apply Antor® 4ES preplant incorporated or preemergence using rates recommended in Dosage Table 3.

DOSAGE TABLE 3 (SPINACH)

Soil Texture	Broadcast Rate of Antor® 4ES Per Acre ⁽¹⁾ (2)	
Coarse:		
Loamy sands and sandy loams	2 qts.	2-4 qts.
Medium/Fine:		
Loams, silt loams, clay loams and clays containing less than 5% organic matter	3 qts.	4 qts.

(1) Within each soil texture category use the higher rate on the finer-textured soils and/or where shepherdspurse or groundcherry is expected to be a problem.

(2) The use of Antor® 4ES on clay loams or clays containing more than 5% organic matter has not been fully investigated. Do not use Antor® 4ES on these soils.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF 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 BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM FAILURE TO USE THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS.

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SUPPLEMENTAL LABELING

ANTOR 4ES EMULSIFIABLE SOLUTION
EPA REG. NO. 45639-54

This labeling must be in the possession of the user at the time of pesticide application. All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

USE OF ANTOR 4ES + RO-NEET⁽¹⁾ TANK MIX ON SUGARBEETS (GROWN IN WYOMING, MONTANA, AND IN WILLIAMS AND MCKENZIE COUNTIES OF WESTERN NORTH DAKOTA).

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire Directions for Use and Disclaimer of Warranties before using this product.

Rate of Application

ANTOR 4ES + RO-NEET⁽¹⁾ TANK-MIX

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Under the Federal Insecticide, Fungicide, and Rodenticide Act
Registered under 45639-54

A tank-mix of ANTOR 4ES + RO-NEET 6E may be used in Wyoming, and Montana and in Williams and McKenzie counties of western North Dakota for broader spectrum weed and grass control including lambsquarters and nightshade. Before use, read the RO-NEET label for additional information and precautions.

(1) RO-NEET[®] is a registered trademark of Stauffer Chem. Co.

DOSAGE TABLE

ANTOR 4ES + RO-NEET 6E TANK-MIX (WYOMING, MONTANA, AND WESTERN NORTH DAKOTA)

Soil Texture	Broadcast Rates Per Acre	
	ANTOR 4ES (pts.)	RO-NEET 6E (pts.)
Coarse: Gravelly coarse sand	2.5	1.67
Medium Coarse: Loamy Sands and Sandy Loams	3	2
Medium Fine: Loams and Silt Loams	3.5	2.33
Fine: Clay Loams and Clays	4	2.67

Rates in table are broadcast rates. In areas where bedding-up is practiced, rates should be reduced by one-third (1/3).

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TYPICAL LABEL

ANTOR[®] 4ES

EMULSIFIABLE SOLUTION

Herbicide for Selective Weed Control in Sugarbeets

Active Ingredients

Diethyl ethyl: [N-(chloroacetyl)-N-(2,6-diethylphenyl) glycine, ethyl ester]

Percent by Weight

43.3

Inert Ingredients

56.7

EPA Reg. No. 45639-54

100.00

This product contains 4 lbs. active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

WARNING — AVISO

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Do not induce vomiting. Call a physician immediately. See "Note to Physician."

If in eyes: Flush with plenty of water. Get medical attention.

If on the skin: Wash skin with soap and plenty of water.

NOTE TO PHYSICIAN — Contains monochlorotoluene solvent.

SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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

NET CONTENTS 5 GALLONS



Sold by: NOR-AM CHEMICAL COMPANY
Wilmington, DE 19803 U.S.A.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read entire Directions for Use and Disclaimer of Warranties 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.

When ANTOR 4ES is applied preemergence, the following statements apply:

REENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried.

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 ANTOR 4ES herbicide on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, see Statement of Practical Treatment on the label.

GENERAL INFORMATION

Antor 4ES is a selective soil-applied herbicide for use in sugarbeets. It can be applied either preplant incorporated or preemergence. The seedbed should be firm, fine and free of clods and trash. When applied preemergence, Antor 4ES requires rainfall or irrigation prior to weed germination for optimum weed control. Similarly, when applied preplant incorporated, moisture in the form of rainfall, irrigation or existing soil moisture must be available to activate the product.

When dry weather conditions prevail or furrow irrigation is used, preplant incorporation of Antor 4ES is recommended for best results.

WEED SPECIES CONTROLLED:

Annual Grass Weeds

Barnyardgrass (watergrass) *Echinochloa crus-galli*
Yellow foxtail *Setaria glauca*
Green foxtail *Setaria viridis*
Giant foxtail *Setaria faberii*
Foxtail millet *Setaria italica*
Wild oats *Avena fatua*

Canarygrass *Phalaris canariensis*
Johnsongrass *Sorghum halepense*
(seedling)
Large crabgrass *Digitaria sanguinalis*

Italian ryegrass (annual) *Lolium multiflorum*
Broadleaf signalgrass *Brachiaria platyphylla*
Witchgrass *Panicum capillare*
Jungleice *Echinochloa colozum*
Fall panicum *Panicum dichotomiflorum*

Annual Broadleaf Weeds

Redroot pigweed *Amaranthus retroflexus*
Prostrate pigweed *Amaranthus blitoides*

Black nightshade *Solanum nigrum*
Annual sowthistle *Sonchus oleraceus*

Groundcherry *Physalis longifolia*
Shepherdspurse *Capsella bursa-pastoris*

SPRAY EQUIPMENT

Apply Antor 4ES alone or in tank mixes using standard low pressure (20-50 psi) spray equipment. The equipment should be carefully calibrated before use and checked frequently during application to ensure that it is functioning properly. Uniformly apply the recommended rates. Use a spray volume of 10 to 50 gallons per acre broadcast basis. Use proportional amounts for band spraying. See section on Band Applications for calculations.

MIXING THE SPRAY

For Antor 4ES alone, add ¼ to ½ the total amount of water to the tank. Then add the required amount of Antor and the remaining quantity of water with the bypass agitator running. When tank-mixing Antor 4ES with wettable powders, mix the proper amount of wettable powder formulation into half the required amount of water in the spray tank with the agitator running. Add the required amount of Antor 4ES and then add the remaining required amount of water. Before tank-mixing with other herbicides, refer to the specific product labels for additional mixing directions.

BAND APPLICATION

To determine the amount of Antor 4ES or tank-mixed emulsifiable concentrates needed per acre by band application, divide band width in inches by row width in inches and multiply the answer by the recommended broadcast rate in quarts. To determine the pounds of wettable powder needed per acre when tank-mixed with Antor 4ES, divide band width in inches by row width in inches and multiply the answer by the recommended broadcast rate in pounds.

ANTOR 4ES USED ALONE — ALL AREAS

PREPLANT INCORPORATED

In arid regions where furrow irrigation is practiced or where the rainfall pattern is erratic, soil incorporation of this product is required to provide optimum weed control.

Apply Antor 4ES to the soil surface broadcast or as a band treatment preplant or at the time of planting and incorporate. Use the recommended rates in Dosage Table 1.

Incorporation immediately after application is not required but must be done prior to weed germination. Use a hooded-power ground-driven rotary tiller, rolling cultivator or similar equipment properly adjusted to uniformly incorporate Antor 4ES to a depth of 1 to 2 inches. Deeper incorporation may reduce effectiveness.

Where sugarbeets are grown in beds, apply Antor 4ES after bedding and incorporate. Irrigate until tops of beds are thoroughly wetted. Incorporation is recommended in the Red River Valley of Minnesota and North Dakota where rainfall is erratic or marginal.

PREEMERGENCE

Preemergence application of Antor 4ES is recommended where sprinkler irrigation is used for crop germination and where rainfall can be depended on to activate the product.

Apply Antor 4ES to the soil surface, either broadcast or as a band treatment at time of planting or shortly after, but prior to weed germination. One-half inch of rainfall or irrigation is usually adequate for activation. It is important that the top 2 inches of soil be thoroughly wetted. Refer to Dosage Table 1 for recommended rates.

DOSAGE TABLE 1 Antor 4ES Alone — All Areas	
Soil Texture	Broadcast Rate of Antor 4ES Per Acre ⁽¹⁾
Coarse: Loamy sands and sandy loams	3 qts.
Medium/Fine: Loams, silt loams, clay loams and clays containing less than 5% organic matter	4 to 6 qts.
Fine: Clay loams and clays containing more than 5% organic matter	6 qts.

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⁽¹⁾See section on Band Application for calculation of proportional amounts.

NOTE: To avoid excessive phytotoxicity to fall-planted sugarbeets south of the Tehachap Mountains in California when temperatures are in excess of 100°F, apply ANTOR at the rate of 2 to 2½ lbs. active ingredient (2 to 2½ quarts ANTOR 4ES) per acre broadcast equivalent. A maximum rate of 2½ to 3 quarts ANTOR 4ES should be used when temperatures are below 100°F. Power incorporation of ANTOR 4ES lessens the chance of phytotoxicity when applied at the higher rate.

ANTOR 4ES + PYRAMIN[®](1) FL TANK-MIX

A tank mix of Antor 4ES with Pyramin FL may be used in specified geographic areas for a broader spectrum of weed control. In addition to the weeds controlled by Antor 4ES alone, this mixture controls:

Common ragweed	<i>Ambrosia artemisiifolia</i>	Common lambsquarters	<i>Chenopodium album</i>	Henbit	<i>Lamium amplexicaule</i>
Wild mustard	<i>Brassica kaber</i>	Common purslane	<i>Portulaca oleracea</i>	Fanweed (stinkweed)	<i>Thlaspi arvense</i>
Pennsylvania smartweed	<i>Polygonum pennsylvanicum</i>	Nettleleaf goosefoot	<i>Chenopodium murale</i>		

Do not use this mixture under conditions where Pyramin FL alone is not recommended. Before use, read the Pyramin FL label for additional information and precautions.

⁽¹⁾Pyramin[®] is a registered trademark of BASF Atkiengesellschaft.

CALIFORNIA

For preplant incorporation with furrow irrigation, apply the tank-mix to the soil surface prior to, or at time of planting and incorporate to a depth of 1 to 2 inches using a rotary type tiller. Use the recommended rates in Dosage Table 2. Irrigate until tops of beds are thoroughly wetted.

For preemergence application with sprinkler irrigation, apply the tank-mix to the soil surface at time of planting or shortly after, but prior to weed germination, using the rates recommended in Dosage Table 2. Irrigate prior to crop and weed germination. Follow directions and precautions on the Pyramin FL label for use preemergence with sprinkler irrigation. Do not exceed ¼ inch of sprinkler irrigation per set until the sugarbeets have two true leaves.

NORTHWEST, INTERMOUNTAIN STATES

For use preemergence under sprinkler irrigation only. Apply the tank-mix to the soil surface at the time of planting or shortly after, but prior to weed germination, using the rates recommended in Dosage Table 2. Irrigate prior to crop and weed germination. Follow directions and precautions on the Pyramin FL label for use preemergence with sprinkler irrigation. Do not exceed ¼ inch of sprinkler irrigation per set until the sugarbeets have two true leaves.

MICHIGAN AND OHIO

For use preemergence without irrigation, apply the tank-mix to the soil surface at the time of planting or shortly after, but prior to weed germination using rates recommended in Dosage Table 2.

DOSAGE TABLE 2 Antor 4ES + Pyramin FL Tank-Mix			
Area	Soil Texture	Broadcast Rate Per Acre ⁽¹⁾	
		Antor 4ES (qts.)	Pyramin FL (qts.)
California, Northwest, Intermountain states, Michigan and Ohio	Coarse: Sandy loams only	2	2.5
	Medium: Loams, silt loams and clay loams containing less than 3% organic matter	2 to 3 ⁽²⁾	3
	Fine: Clay loams and clays containing more than 3% organic matter	3	3

⁽¹⁾See section on Band Applications for calculations of proportional amounts.

⁽²⁾Use higher rate on clay loam soils.

ANTOR 4ES + TCA TANK-MIX (MN and ND Only)

Tank-mixes of Antor 4ES + TCA may be used in the Red River Valley of North Dakota and Minnesota for improved control of foxtails (*Setaria* spp.).

This tank-mix may be applied either preemergence or preplant incorporated; however, shallow (up to 2") incorporation will ensure more consistent weed control where rainfall is erratic or marginal.

See Dosage Table 3 for recommended rates.

DOSAGE TABLE 3 Antor 4ES + TCA Tank-Mix			
Soil Texture	Broadcast Rates Per Acre ⁽¹⁾		
	Antor 4ES (qts.)	TCA 4.76 lb. ai/gal. ⁽²⁾	TCA 79.3% WSP ⁽³⁾
Coarse: Loamy sands, sandy loams	NOT RECOMMENDED		
Medium/Fine: Loams, silt loams, clay loams and clays containing less than 5% organic matter	4 to 6 ⁽⁴⁾	10 pts.	or 7.5 lbs.
Fine: Clay loams and clays containing more than 5% organic matter	6	10 pts.	or 7.5 lbs.

⁽¹⁾See section on Band Applications for calculations or proportional amounts.

⁽²⁾Solution

⁽³⁾Water Soluble Powder

⁽⁴⁾Use higher rates on heavy clay soils.

ANTOR 4ES + EPTAM^{®(1)} TANK-MIX OR SEQUENCE (MN and ND Only)

The tank-mix or sequence of Antor 4ES and Eptam 7E may be used in the Red River Valley of Minnesota and North Dakota for improved control of:

Green foxtail *Setaria viridis* Yellow foxtail *Setaria lutescens* Wild oats *Avena fatua*

In addition, this tank mix will reduce competition from the following weeds:

Kochia *Kochia scoparia* Common lambsquarters *Chenopodium album* Wild buckwheat *Polygonum convolvulus*

Tank-mixes of Antor 4ES + Eptam 7E may be used in the spring. Apply preplant incorporated with incorporation of 2 to 4 inches.

See Dosage Table 4 for recommended rates.

⁽¹⁾Eptam[®] is a registered trademark of Stauffer Chemical Co.

DOSAGE TABLE 4 Antor 4ES + Eptam 7E Tank-Mix (Spring Applications Only)		
Soil Texture	Broadcast Rate Per Acre ⁽¹⁾	
	Antor 4ES (qts.)	Eptam 7E (qts.)
Coarse: Loamy sands, sandy loams, or soils containing less than 4% organic matter	NOT RECOMMENDED	
Medium/Fine: Loams, silt loams, clay loams and clays containing more than 4% organic matter	4	2.25

⁽¹⁾ See section on Band Applications for calculations of proportioned amounts.

Eptam 7E or 10G (Fall Applied) + Antor 4ES (Spring Applied).

Fall applications of Eptam 7E or 10G at labeled rates may be followed by spring applications of Antor 4ES at 4 qts. per acre on a broadcast basis.

Note: Antor/Eptam tank-mixes or sequences are not recommended for use on soils containing less than 4% organic matter.

Do not use this mixture under conditions where Eptam alone is not recommended. Before use, read the Eptam label for additional information and precautions.

SEQUENTIAL TREATMENT WITH BETANEX[®] OR BETAMIX[®] — ALL AREAS

A sequential treatment of Antor 4ES applied preplant incorporated or preemergence at recommended rates followed by a postemergence treatment of Betanex or Betamix will control the weeds listed under the Weed Species Controlled section, and the additional weeds:

Kochia *Kochia scoparia* Wild buckwheat *Polygonum convolvulus* Londonrocket *Sisymbrium irio*
Common lambsquarters *Chenopodium album* Common chickweed *Stellaria media* Nettleleaf goosefoot *Chenopodium mutale*
Common ragweed *Ambrosia artemisiifolia* Common purslane *Portulaca oleracea*

The postemergence treatment should be applied according to the Directions for Use on the Betanex and Betamix labels.

Read and follow the precautionary statements and all other information appearing on the Betanex and Betamix labels.

APPLICATION OF ANTOR 4ES VIA SPRINKLER SYSTEM INJECTION

In arid regions where overhead sprinkler irrigation is used to germinate the sugarbeet crop, Antor 4ES may be injected through sprinkler irrigation systems. Diluted Antor should be metered into the central pivot irrigation system at the rates recommended in Dosage Table 5. Applications should be made after seeding and before emergence of sugarbeets or weeds. Apply Antor 4ES in 1/3 to 3/4 inch of water per acre.

Agitation of the diluted Antor in the chemical source (or slurry) tank should be maintained during the entire application period.

Apply Antor 4ES only through systems with anti-siphon and check valves which will prevent water source contamination and overflow of the chemical source (or slurry) tank; and systems having interlocking controls between the metering device and the water pump to ensure simultaneous shut-off. Inject Antor 4ES with a positive displacement pump into the main water line ahead of a right-angle turn to insure adequate mixing. Do not apply Antor 4ES in greater than the recommended quantities of irrigation water per acre or decreased activity will result.

Do not apply Antor 4ES when wind speed favors drift. Do not use Antor 4ES in irrigation systems where connections or fittings leak, or where nozzles do not give uniform distribution. Flush the irrigation system completely with water upon completion of the application to remove Antor 4ES from the line before dismantling or draining. When sprinkler distribution patterns do not overlap, unacceptable weed control may result. Where overlap is excessive, crop injury may result.

DOSAGE TABLE 5 Antor 4ES Applied Via Sprinkler Systems	
Soil Texture	Broadcast Rate Per Acre Antor 4ES (qts.)
Coarse: Loamy sands and sandy loams	3
Medium/Fine: Loams, silt loams, clay loams and clays	4

ANTOR 4ES + NORTRON TANK MIX (CA only)

Tank-mixes of Antor 4ES with Nortron EC can be used in specified geographic areas for control of the additional weeds:

NOTE:

Kochia	<i>Kochia scoparia</i>	Volunteer barley	<i>Hordeum sp.</i>	Common chickweed	<i>Stellaria media</i>
Common lambsquarters	<i>Chenopodium album</i>	Volunteer wheat	<i>Triticum sp.</i>	Ladysthumb	<i>Polygonum persicaria</i>
Russian thistle	<i>Salsola kali</i>	Common purslane	<i>Portulaca oleracea</i>	Pennsylvania smartweed	<i>Polygonum pensylvanicum</i>

Antor 4ES + Nortron tank-mixes may be applied preplant incorporated where furrow irrigation is practiced using shallow incorporation implements such as rolling cultivators or harrows, or using power tillers set to a depth of 1-2 inches. Preemergence applications of Antor 4ES + Nortron tank-mixes may be used when application is followed by sprinkler irrigation prior to weed germination and crop emergence, or where rainfall can be expected to occur within 7-10 days after application. Antor 4ES may also be utilized in sequential applications with Nortron where a broadcast preemergence treatment of Antor 4ES is followed by a band overlay of Nortron preemergence. The same dosage rates should be used as in the tank-mix. Refer to Dosage Table 6 for recommended rates. Before use, read the Nortron EC label for additional information and precautions.

DOSAGE TABLE 6 Antor 4ES + Nortron Tank — California		
Soil Texture	Broadcast Rates Per Acre ⁽¹⁾	
	Antor 4ES (qts.)	Nortron 1.5 EC (qts.)
Coarse: Loamy sands and sandy loams	1.5	4
Medium: Loams and silt loams	2	5.3
Fine: Clay loams and clays	3 to 4 ⁽²⁾	6.6

⁽¹⁾See section on Band Applications for calculations or proportional amounts.
⁽²⁾Use higher rates on heavy clay soils.

ANTOR 4ES + NORTRON + PYRAMIN TANK-MIX (MI)

A tank-mix of Antor 4ES + Nortron EC + Pyramin FL may be used in Michigan for control of the additional weeds:

Common ragweed	<i>Ambrosia artemisiifolia</i>	Henbit	<i>Lamium amplexicaule</i>
Wild mustard	<i>Brassica kaber</i>	Fanweed (stinkweed)	<i>Thlaspi arvense</i>
Pennsylvania smartweed	<i>Polygonum pensylvanicum</i>	Kochia	<i>Kochia scoparia</i>
Common lambsquarter	<i>Chenopodium album</i>	Russian thistle	<i>Salsola kali</i>
Common purslane	<i>Portulaca oleracea</i>	Volunteer barley	<i>Hordeum sp.</i>
Nettleleaf goosefoot	<i>Chenopodium murale</i>	Volunteer wheat	<i>Triticum sp.</i>
Common chickweed	<i>Stellaria media</i>	Ladysthumb	<i>Polygonum persicaria</i>

For preemergence use without irrigation, apply the tank-mix to the soil surface at the time of planting or shortly after, but prior to weed germination. Use rates recommended in Dosage Table 7.

Do not use this mixture under conditions where Pyramin alone is not recommended. Before use, read the Pyramin FL and Nortron EC labels for additional information and precautions.

DOSAGE TABLE 7 Antor 4ES + Nortron + Pyramin — Michigan			
Soil Texture	Broadcast Rates Per Acre		
	Antor 4ES (qts)	Nortron EC (qts)	Pyramin FL (qts)
Coarse: Sandy loams only	1.5	4	2.25
Medium: Loams, silt loams and clay loams containing less than 3% organic matter	2	5.3	2.25
Fine: Clay loams and clays containing more than 3% organic matter	3	5.3	2.25

12/1/75

GENERAL USE PRECAUTIONS:

Unusually dry, windy weather following application of Antor 4ES or tank-mixes, which dries the upper soil layer, may reduce effectiveness.

If crop is lost due to climatic or soil conditions following application of Antor 4ES or tank-mixes, do not re-treat field with Antor 4ES or tank-mixes within the same season.

Do not allow spray mixture to stand in tank overnight. Flush and drain equipment after each day's use.

Where Antor 4ES is used in tank-mix with TCA, do not use treated sugarbeet tops for feed or forage.

Do not mix Antor 4ES or tank-mixes with liquid fertilizers.

ROTATIONAL CROPS:

Crops, except wheat, may be rotated at 3 months post-application. Wheat may be planted 9 months after application.

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

WARNING

The active ingredient in Antor may cause skin sensitization reactions in certain individuals. Wear coveralls and gloves while handling or using this product. Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wear goggles, face shield, or safety glasses when handling. Wash thoroughly with soap and water after handling. Avoid breathing of spray mist. Avoid contamination of food.

ENVIRONMENTAL HAZARDS

Do not apply directly to any body of water.

Do not apply when weather conditions favor drift from areas treated.

Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, or store near heat or open flame.

STORAGE AND DISPOSAL

STORAGE

Protect ANTOR 4ES from frost.

Open dumping is prohibited.

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.

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