

SPECIMEN LABEL

ACCEPTED
 MAR 24 1991
 Under the Federal Insecticide
 Fungicide and Rodenticide Act
 EPA Reg. No. 45639-54

FOR AGRICULTURAL USE ONLY

Antor[®] 4ES

EMULSIFIABLE SOLUTION

Herbicide for Selective Weed Control in Sugar Beets; Red Beets (Intended for Processing or Grown for Seed Only); Spinach; and Bermudagrass (Grown for Seed Only)

ACTIVE INGREDIENT:

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

Percent by Weight

43.3%

INERT INGREDIENTS:

56.7%

TOTAL

100.0%

This product contains 4 lbs. active ingredient per gallon.

EPA Reg. No. 45639-54

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: 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

NOR-AM

NOR-AM CHEMICAL COMPANY
A Schering-Boehringer Company

3509 Silverside Road, P.O. Box 7495
Wilmington, DE 19803

NET CONTENTS:

U.S. Patent No. 3,780,090

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 when disposing of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS:

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

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

STORAGE AND DISPOSAL

STORAGE: Protect ANTOR 4ES from freezing. 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 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.

DO NOT REUSE EMPTY CONTAINER.

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 sugar beet 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.

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.

Do not apply this product in combination with insecticides or fungicides. 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 spray has 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 sugar beets, red beets, spinach, and Bermudagrass. 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.

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 1/4 to 1/2 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 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.

APPLICATION THROUGH IRRIGATION SYSTEMS (CHEMIGATION):

IMPORTANT: Please refer to crop-specific chemigation application directions and precautionary statements provided in the SUGAR BEETS and BERMUDAGRASS sections of these Directions For Use. ANTOR 4ES is *not* recommended for application via chemigation to spinach or red beets.

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; or border irrigation system(s). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

APPLICATION WITH LIQUID FERTILIZERS:

ANTOR 4ES and Tank-mixes may be combined with liquid (solution, slurry or suspension) fertilizers. However, physical compatibility with these fertilizers should be determined before combining in the spray tank. See Appendix I for directions for testing combinations. Constant agitation in the spray tank is recommended when combining ANTOR 4ES with compatible liquid fertilizers.

IMPREGNATION ON DRY BULK FERTILIZERS:

ANTOR 4ES may be impregnated on certain dry bulk fertilizers for use on sugarbeets. ANTOR 4ES impregnated on dry bulk fertilizers may be applied and incorporated into the soil either in the fall before the ground freezes or in the spring prior to planting. Uniform distribution of ANTOR 4ES on the fertilizer particles, accurate application, and uniform incorporation in the field are necessary to ensure adequate control of susceptible weed species. See Appendix II for special instructions regarding directions for impregnation and use.

WEED SPECIES CONTROLLED—SUGAR BEETS 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 *Brachiaria platyphylla*
- Witchgrass *Panicum capillare*
- Junglerice *Echinochloa colonum*
- 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*

SUGAR BEETS

ANTOR 4ES USED ALONE—ALL AREAS

SUGAR BEETS—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 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.

Where sugar beets 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.

SUGAR BEETS—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: SUGAR BEETS—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 and loams clay loams and clays containing less than 5% organic matter	4 to 6 qts. ²
Fine: Clay loams and clays containing more than 5% organic matter	6 qts.

¹See section on Band Application for calculation of proportional amounts

²Use higher rates on heavy clay soils or where black nightshade or groundcherry are expected to be a problem.

NOTE: TO AVOID EXCESSIVE PHYTOTOXICITY TO FALL PLANTED SUGAR BEETS SOUTH OF THE TEHACHAPI 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 3½ 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.

SUGAR BEETS—ANTOR 4ES + PYRAMIN® FL TANK-MIX (California, Michigan, Ohio and Northwest Intermountain States only)

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

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.

CALIFORNIA: For preplant incorporation with furrow irrigation, apply the tank-mix to the soil surface prior to, or at

¹Pyramin® is a registered trademark of BASF Aktiengesellschaft.

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 ¾ inch of sprinkler irrigation per set until the sugar beets 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 ¾ inch of sprinkler irrigation per set until the sugar beets 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: SUGAR BEETS—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

¹See section on Band Application for calculation of proportional amounts.
²Use higher rate on clay loam soils.

SUGAR BEETS—ANTOR 4ES + TCA TANK-MIX (Minnesota and North Dakota 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: SUGAR BEETS—ANTOR 4ES + TCA Tank-Mix

Soil Texture	ANTOR 4ES (qts.)	Broadcast Rate Per Acre ¹	
		TCA 4.75 lb. a/gal. ²	TCA 78.3% WSP ³
Coarse: Loamy sands and 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.	

¹See section on Band Applications for calculations of proportional amounts.
²Solution
³Water Soluble Powder
⁴Use higher rates on heavy clay soils.

SUGAR BEETS—ANTOR 4ES + EPTAM[®] TANK-MIX OR SEQUENCE (Minnesota and North Dakota 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 glauca*
 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.

DOSAGE TABLE 4: SUGAR BEETS—ANTOR 4ES + EPTAM 7E Tank-Mix (Spring Applications Only)

Soil Texture	Broadcast Rate Per Acre ¹	
	ANTOR 4ES (qts.)	Eptam 7E (pts.)
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

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

SUGAR BEETS—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.

SUGAR BEETS—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*
 Common lambsquarters *Chenopodium album*
 Common ragweed *Ambrosia artemisiifolia*
 Wild buckwheat *Polygonum convolvulus*
 Common chickweed *Stellaria media*
 Common purslane *Portulaca oleracea*
 Londonrocket *Sisymbrium irio*
 Nettleleaf goosefoot *Chenopodium murale*

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.

SUGAR BEETS—APPLICATION OF ANTOR 4ES VIA SPRINKLER SYSTEM INJECTION: In arid regions where overhead sprinkler irrigation is used to germinate the sugar beet crop, ANTOR 4ES may be injected through sprinkler irrigation systems.

SPRINKLER CHEMIGATION

IMPORTANT: Read all instructions under "Application Through Irrigation Systems (Chemigation)" given in the GENERAL INFORMATION section of this label.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

¹Eptam[®] is a registered trademark of ICI Americas, Inc.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

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 sugar beets or weeds. Apply ANTOR 4ES in 1/8 to 3/8 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.

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 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: SUGAR BEETS—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

SUGAR BEETS—ANTOR 4ES + NORTRON® TANK-MIX (California, Colorado, Montana, Nebraska, Texas and Wyoming only): Tank-mixes of ANTOR 4ES with NORTRON EC can be used in specified geographic areas for control of the additional weeds:

- Kochia *Kochia scoparia*
 - Common lambsquarters *Chenopodium album*
 - Russian thistle *Salsola kali*
 - Volunteer barley *Hordeum* sp.
 - Volunteer wheat *Triticum* sp.
 - Common purslane *Portulaca oleracea*
 - Common chickweed *Stellaria media*
 - Ladysthumb *Polygonum persicaria*
 - Pennsylvania smartweed *Polygonum pennsylvanicum*
- 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: SUGAR BEETS—ANTOR 4ES + NORTRON Tank-Mix—(California, Colorado, Montana, Nebraska, Texas, and Wyoming)

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/Fine: Loams and silt loams	2	5.3
Fine: Clay loams and clays	3 to 4 ²	6.6

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

SUGAR BEETS—ANTOR 4ES + NORTRON + PYRAMIN FL TANK-MIX (Michigan only): A tank-mix of ANTOR 4ES + NORTRON EC + Pyramin FL may be used in Michigan for control of the additional weeds:

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

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: SUGAR BEETS—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 material	2	5.3	2.25
Fine: Clay loams and clays containing more than 3% organic material	3	5.3	2.25

SUGAR BEETS—ANTOR 4ES + RO-NEET® 6E* TANK-MIX (Colorado (spring application only), Idaho, Minnesota, Montana, Nebraska, North Dakota, Eastern Oregon, and Wyoming only)

A tank-mix of ANTOR 4ES + RO-NEET 6E may be used in Colorado, Idaho, Minnesota, Montana, Nebraska, North Dakota, Eastern Oregon and Wyoming for broader spectrum weed and grass control including lambsquarters and nightshade.

See Dosage Table 8 for recommended rates.

DOSAGE TABLE 8: SUGAR BEETS—ANTOR 4ES + RO-NEET—Tank-Mix—(Colorado (spring application only), Idaho, Minnesota, Montana, Nebraska, North Dakota, Eastern Oregon & Wyoming only)

Soil Texture	Broadcast Rates Per Acre ¹	
	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

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

WEED SPECIES CONTROLLED: RED BEETS AND SPINACH 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 *Brachiaria platyphylla*

Witchgrass *Panicum capillare*

Junglerice *Echinochloa colonum*

Fall panicum *Panicum dichotomiflorum*

ANNUAL BROADLEAF WEEDS

Redroot pigweed *Amaranthus retroflexus*

Prostrate pigweed *Amaranthus blitoides*

Spinny 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 matricanoides*

METHOD OF APPLICATION: RED BEETS, SPINACH

SOILS: Avoid application of ANTOR 4ES to red beets or spinach growing in soils with a pH of 7.2 or higher as crop injury may occur.

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 maximum 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.

NOTE: Excessive soil moisture resulting from furrow irrigation, frequent sprinkler irrigation or abundant rainfall will cause dilution of ANTOR 4ES in the surface soil layer and may reduce effectiveness of the product. If soil moisture content is low, it is recommended that the field be irrigated prior to ANTOR application. If needed, a follow-up sprinkler irrigation of no more than one-half inch (1/2") of water per acre following ANTOR application may be undertaken to activate and incorporate the herbicide into the soil. Use of furrow irrigation is not recommended following ANTOR 4ES application to achieve incorporation of the herbicide.

USE PRECAUTIONS: SPINACH AND RED BEETS

To avoid possible crop injury, do not apply ANTOR 4ES to late-planted or second-crop spinach or to spinach or red beets after June 15 of the growing season in the following counties in Texas and New Mexico:

TEXAS

Dawson

Bailey

Crosby

Lubbock

Lynn

Terry

Cochran

Andrews

Palmer

Deaf Smith

Lamb

Hockey

Borden

Garza

NEW MEXICO

Curry

Roosevelt

RED BEETS (Intended for Processing or Grown for Seed only)

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 9.

DOSAGE TABLE 9: RED BEETS—ANTOR 4ES Alone

Soil Texture	Broadcast Rate of ANTOR 4ES Per Acre ¹
Coarse to Medium/Fine: Loamy sands and sandy loams, 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.

¹Within 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.

RED BEETS—ANTOR 4ES + PYRAMIN® FL 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 *Sinapis arvensis*

Pennsylvania smartweed *Polygonum pennsylvanicum*

Fanweed (stinkweed) *Thlaspi arvense*

Common lambsquarters *Chenopodium album*

Common purslane *Portulaca oleracea*

Nettleleaf goosefoot *Chenopodium murale*

*RO-NEET® is a registered trademark of ICI Americas, Inc.

**Pyramin® is a registered trademark of BASF Aktiengesellschaft.

Apply this tank-mix preemergence using rates recommended in Dosage Table 10. 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.

DO dosage TABLE 10: RED BEETS—ANTOR 4ES + PYRAMIN FL TANK-MIX

Soil Texture	Broadcast Rates Per Acre	
	ANTOR 4ES (qts.)	PYRAMIN FL (qts.)
Coarse: Sandy loams only	2	3
Medium/Fine: 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 5% organic matter	3	3

¹Use the higher rate on clay loam soils.

RED BEETS—ANTOR 4ES + RO-NEET 6E TANK-MIX (Wisconsin and Minnesota only)**

A tank-mix of ANTOR 4ES with RO-NEET 6E may be used in Wisconsin and Minnesota to control a broader spectrum of weeds including lambsquarters and nightshade. Before use, read the RO-NEET label for additional information and precautions. Incorporate as specified on the RO-NEET label.

DO dosage TABLE 11: RED BEETS—ANTOR 4ES + RO-NEET 6E Tank-Mix (Wisconsin and Minnesota)

Soil Texture	Broadcast Rates Per Acre	
	ANTOR 4ES (qts.)	RO-NEET 6E (qts.)
Coarse: Gravelly coarse sand (Less than 2% organic matter)	1.5	1.0
Medium/Coarse: Loamy sands and sandy loams (2-3% organic matter)	2.5	1.8
Medium/Fine: Loams and silt loams (3-5% organic matter)	3	2
Fine: Clay loams and clays (greater than 5% organic matter)	4	2

SPINACH

Apply ANTOR 4ES preplant incorporated or preemergence using rates recommended in Dosage Table 12.

DO dosage TABLE 12: SPINACH—ANTOR 4ES Alone

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

¹Within 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.

²The 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.

BERMUDAGRASS WEED SPECIES CONTROLLED (Grown for Seed only)

ANTOR 4ES is an effective preemergence herbicide for use in established Bermudagrass grown for seed (*Cynodon dactylon*). ANTOR 4ES controls germinating weeds only after shoot and root absorption. It should be applied in the irrigation water (water run) prior to weed germination.

ANNUAL GRASS WEEDS

- Sprangletop *Leptochloa* spp.
- Watergrass *Echinochloa oryzoides*
- Canarygrass *Phalaris* spp.

ANNUAL BROADLEAF WEEDS

- Redroot pigweed *Amaranthus retroflexus*

USE PRECAUTIONS: BERMUDAGRASS

Do not apply ANTOR 4ES more than three times per season.

Apply ANTOR 4ES to Bermudagrass which has been established for a minimum of 4 months. If applied earlier, crop injury may occur.

Take steps to insure that tail water does not reach other crops.

RESTRICTION

Do not graze or feed treated crop, forage, or hay to livestock. The treated crop is to be used only for seed production.

ENVIRONMENTAL HAZARDS

Do not apply directly to any body of water except as specified on this label.

APPLICATION RATE

Spring Application:

For early season weed control meter 2.0-4.0 quarts per acre of ANTOR 4ES into the irrigation water of established Bermudagrass prior to weed emergence. Use the higher rate for extended residual control, heavy weed pressure, or on heavy soil types. Refer to the flow chart and sample calculation for additional information.

Spring and Summer Application:

For control of weeds in both the spring and early summer months meter ANTOR 4ES at a rate of 2.0 quarts per acre in the first spring irrigation followed by a second application in 6-8 weeks of 2.0 quarts per acre applied into the irrigation water. Refer to the flow chart and sample calculation for additional information.

Fall Application:

For control of cool season winter weeds, meter 2.0-4.0 quarts per acre of ANTOR 4ES into the irrigation water prior to weed emergence. Application timing may coincide with the last irrigation of the year. Use the higher rate for extended residual control, heavy weed pressure or on heavy soil types. Refer to the flow chart and sample calculation for additional information.

Application made after weed emergence may result in unacceptable weed control.

APPLICATION METHOD

FLOOD (BASIN), FURROW AND BORDER CHEMIGATION:

IMPORTANT: Read all instructions under "Application Through Irrigation Systems (Chemigation)" given in the GENERAL INFORMATION Section of this label.

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Type of Device:

The constant flow device is recommended for metering ANTOR 4ES into the irrigation water for water-run applications of border type flood irrigation. This device is not recommended for other types of irrigation systems.

The necessary hardware is a length of pipe to reach from the chemical drum to just above the water level, a petcock valve, screen to prevent particles from clogging the flow orifice and a coupling to hold the orifice and a coupling to hold the orifice disc in place. Once the flow has begun by opening the petcock, open the venting petcock above the T coupler. This forms a constant head siphon, the flow rate governed by the orifice aperture.

Set Up and Calibration:

Set the ANTOR 4ES drum on planks over the ditch with the constant flow device pointed downward. Place the drum behind a gate or near some structure where there is turbulence for mixing of the herbicide. Start the herbicide flow to commence with the start of the irrigation cycle calibrated to finish with the end of the irrigation period. To calibrate, estimate the length of time of the irrigation and number of acres to be treated. Calculate the flow rate for the amount of ANTOR 4ES to be applied and check the flow chart for the appropriate size orifice. (Refer to flow rate chart and sample calculation.) Select the appropriate orifice and measure the flow of herbicide for 1 minute in the measuring cup. Compare this to your calculations and adjust the orifice accordingly so that the correct amount is metered during the irrigation cycle. Tail water (run-off) from flood irrigation should be recirculated or controlled so that it does not leave the field.

FLOW RATES FOR ANTOR 4ES USING VARIOUS TEE JET ORIFICES*

Tee Jet Orifice	CC Per Minute	Ounces Per Minute	Quarts Per Hour
.015	10	.34	.84
.018	11	.37	.89
.018	13	.44	.83
.020	17	.57	1.07
.022	22	.74	1.39
.024	24	.81	1.52
.028	30	1.01	1.89
.028	37	1.25	2.34
.030	42	1.42	2.66
.032	47	1.59	2.98
.034	54	1.83	3.43
.035	59	2.00	3.75
.037	61	2.08	3.88
.040	73	2.47	4.63
.041	78	2.64	4.95
.043	84	2.84	5.33
.045	95	3.21	6.02
.046	98	3.31	6.21
.048	103	3.48	6.53
.049	113	3.82	7.16
.051	122	4.13	7.74
.052	126	4.28	7.99
.054	136	4.60	8.63
.055	144	4.89	9.17
.057	153	5.17	9.69
.059	168	5.68	10.65
.061	173	5.85	10.97
.063	184	6.22	11.66
.065	190	6.42	12.04
.067	207	7.00	13.13
.070	238	8.05	15.09
.075	270	9.13	17.12
.080	298	10.01	18.77
.088	339	11.48	21.49
.093	384	12.99	24.36
.103	470	15.89	29.79

* Figures were taken at 80°F and are approximate. Occasionally check to measure flow in the field to make sure you have the correct orifice and because flow rates vary with temperatures.

Sample Calculation The following sample calculation is appropriate for ANTOR 4ES applied as water-run with a constant flow device in bermudagrass grown for seed.

1. Size of block to be watered in one irrigation setting.
e.g. 10 acres
2. ANTOR 4ES rate per acre.
e.g. 2 quarts
3. Total amount of ANTOR 4ES to be applied to 10 acre block.
e.g. 2 qts./ANTOR 4ES x 10 acres = 20 quarts
4. Amount of time to irrigate the 10 acre block.
e.g. 3 hours
5. Amount of ANTOR 4ES applied per hour.
e.g. 20 qts. ÷ 3 hours = 6.67 quarts/hr.
6. Ounces of ANTOR 4ES applied per hour
e.g. 6.67 qts./hr. x 32 oz./qt. = 213.4 oz./hr.
7. Ounces of ANTOR 4ES applied per minute
e.g. 213.4 oz./hr. ÷ 60 min./hr. = 3.56 oz./min.
8. Cubic centimeters (CC) of ANTOR 4ES per minute.
e.g. 3.56 oz./min. x 29.6 ml./oz. = 105.37 ml./min.
9. Check flow chart for flow rate.
e.g. 105.37 ml./min. = orifice No. 3.48
10. Always calibrate the orifice before beginning because of differences in orifice flow rate.

APPENDIX I

ANTOR 4ES WITH LIQUID FERTILIZERS

The following procedure is suggested for evaluation of physical compatibility of ANTOR 4ES in mixtures with liquid fertilizers for spray tank application.

MATERIAL REQUIRED

- ANTOR 4ES-components of tank-mixes if intended for use
- Liquid fertilizer to be used
- Adjuvant for fertilizer tank-mix: Compex* or E-Z Mix**.
- Two (or more) one quart, wide mouth containers with lids or stoppers
- Measuring spoons—(25 ml pipette or graduated cylinder provides more accurate measurement)
- Measuring cup, 8 fl. oz. (237 ml)

*Compex-Kalo Laboratories Inc., Kansas MO

**E-Z United Agri-Products Greeley, CO

PROCEDURE:

1. Pour one pint (473 ml) of the liquid fertilizer into each of the quart containers.
2. Add adjuvant(s) to one or more of the containers and mix; follow label directions of adjuvant.
3. Add the ANTOR 4ES and tank-mix components to the containers (see rate table below).
4. Close the containers with lids or stoppers and mix contents by inverting the containers ten times.
5. Inspect the surface and body of the mixture:
 - a) immediately after mixing,
 - b) after allowing mixture to stand quietly for 30 minutes,
 - c) immediately after mixing again (invert the containers ten more times).

If a uniform mixture does not occur, the spray tank mixture should not be used. If any of the mixtures remain uniform for 30 minutes, that mixture may be used in spray tank applications. Should any of the mixtures separate after 30 minutes but remix readily into a uniform mixture with inversion of the container, the mixture may be used provided that adequate agitation is maintained in the spray tank. If an ANTOR 4ES + fertilizer mixture utilizing an adjuvant is satisfactory, but the one without adjuvant is not, be sure to use the adjuvant in the spray tank at the rate recommended on the label, which was used in this test.

If nondispersible oil, sludge or clumps of solids form in the mixtures, those combinations should not be used for spray tank application.

RATE TABLE FOR ANTOR 4ES MIXTURES WITH LIQUID FERTILIZERS

Gal. of Liquid Fertilizer to be applied per acre	*ml. or tsp. of ANTOR 4ES to be added to 1 pint of fertilizer	
	ml	tsp
10	45	9.5
20	23	5.0
30	15	3.25
40	11	2.5
50	8	2.0

* Based on field use rate of 4.0 lb. a/acre (1 gal/acre) in the fertilizer volumes indicated. Adjust amount of ANTOR 4ES added proportionately to correspond with intended field use rate recommended on ANTOR 4ES label for soil type. Add the proportionate amount to tank-mix component (e.g., NORTRON EC, Pyramin) if intended for use, based on volume of ANTOR 4ES used in the test.

APPENDIX II

ANTOR 4ES IMPREGNATION ON DRY BULK FERTILIZERS

ANTOR 4ES may be impregnated on many dry bulk fertilizers (1) and applied and incorporated into the soil before planting for the control of labeled grasses and broadleaf weeds in sugar beets.

All ANTOR 4ES label and supplementary literature instructions and precautions regarding rates per acre, soil type and soil incorporation, application and other directions must be followed.

CAUTION: Nitrate fertilizers represent a potential explosive hazard, particularly in contact with organic substances such as ANTOR 4ES. Do not impregnate ANTOR 4ES on ammonium nitrate. Do not use fertilizers containing ammonium, potassium or sodium nitrate. Such mixtures may cause explosion.

A minimum of 200 pounds and a maximum of 700 pounds of approved fertilizer ingredients (2) impregnated with the appropriate amount of ANTOR 4ES must be applied per acre.

For impregnating the pesticide on dry fertilizers, use a closed rotary-drum type mixer equipped with suitable spraying equipment. The spray nozzles should be positioned inside of the mixer to provide uniform spray coverage of the tumbling fertilizer. The ANTOR 4ES should be sprayed uniformly onto the fertilizer using a fine spray pattern.

The physical properties of fertilizers vary, particularly in liquid adsorptive capacity. When adsorptivity is sufficient, simple spray impregnation of the fertilizer with ANTOR 4ES provides a satisfactory dry mixture.

If the adsorptivity is not adequate, use of a highly adsorptive powder is required to provide a dry, free-flowing mixture. Microcel E (Johns-Manville Products Corporation) is the recommended adsorbent powder. It should be added separately and uniformly to the prepared pesticide-fertilizer mixture in a quantity that is sufficient to provide a suitably free-flowing mixture. Generally, less than 2% by weight of Microcel E is required.

The amount of ANTOR 4ES actually required in the formulation of specific fertilizer mixtures should be calibrated carefully for each production operation. This is necessary to ensure that the amount of ANTOR 4ES actually contained in the fertilizer mixture applied to the soil represents the correct dosage rate.

Bulk fertilizers impregnated with ANTOR 4ES should be applied immediately, NOT STORED.

ANTOR 4ES impregnation on dry bulk fertilizers:

1. Approved dry fertilizer ingredients for use with ANTOR 4ES

	N	P	K
Ammonium sulfate	21	0	0
Ammonium phosphate-sulfate	18	20	0
Diammonium phosphate	18	46	0
Monocammonium phosphate	11	56	0
Potassium chloride	0	0	60
Potassium sulfate	0	0	52
Single superphosphate	0	20	0
Triple superphosphate	0	46	0
Urea	45	0	0

ANTOR 4ES Physical Data

Density	1.11 g/cm ³
Pounds/gallon	9.46
Flashpoint	102°F using T.C.C. method, combustible

2. Rate Chart for the Impregnation of Dry Bulk Fertilizers with ANTOR 4ES:

Fertilizer Rate Per Acre	ANTOR 4ES Rate Per Acre		
	2 qts. per acre	4 qts. per acre	6 qts. per acre
200	20 qts./ton	40 qts./ton	60 qts./ton
250	16 qts./ton	32 qts./ton	48 qts./ton
300	13 1/3 qts./ton	26 2/3 qts./ton	53 1/3 qts./ton
350	11 1/2 qts./ton	22 1/2 qts./ton	34 1/2 qts./ton
400	10 qts./ton	20 qts./ton	30 qts./ton
450	8 2/3 qts./ton	17 1/3 qts./ton	26 2/3 qts./ton
500	8 qts./ton	16 qts./ton	24 qts./ton
550	7 1/4 qts./ton	14 3/4 qts./ton	22 qts./ton
600	6 2/3 qts./ton	13 1/3 qts./ton	20 qts./ton
650	6 1/4 qts./ton	12 1/2 qts./ton	18 1/2 qts./ton
700	5 2/3 qts./ton	11 1/3 qts./ton	17 1/3 qts./ton

IMPORTANT: READ BEFORE USE

By using this product, user accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

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