MORTRON

HERBICIDE

waegs in sugar beets For selective control of

ACTIVE INGREDIENT: Ethofumesate: (2-ethoxy-2, 3 methanesulfonate*) **INERT INGREDIENTS:**

*Protected by U.S. Patent No. 3,68 This product contains 1.5 ib active in coediest per EPA REGISTRATION NO. 456396

PRECAUCION AL USARIO: Si usted no len ingles, no use este producto hasta que la eti queta le haya sido explicada ampliamente

KEEP OUT OF REACH OF CHILDREN DANGER

CORROSIVE, CAUSES EYE DAMAGE. WEAR GOGGLES OR FACE SHIELD WHEN HANDLING.

IF SWALLOWED - DRINK PROMPTLY A LARGE QUANTITY OF MILK. E3G WHITES, GELATIN SOLUTION OR IF THESE ARE NOT AVAILABLE. DRINK LARGE QUANTITIES OF WATER AVOID ALCOHOL. CALL A PHYSICIAN IF ON SKIN — FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES IF IN EYES - IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, CALL A PHYSICIAN.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corresive. Causes eye damage. Do not get in eyes. Wear goggles or face shield when handling. Harmful if absorbed through skin. Avoid contact with skin

FIRST AID — In case of contact, immediately flush eyes or skin with pienty of water for at least 15 minutes. For eiges, call a physician. Get medical attention if skin irritation persists Remove and wash contaminated clothing before reuse

ENVIRONMENTAL HAZARDS - Do not apply directly to water. Do not apply when weather conditions favor drift from treated area. Do not contaminate water by cleaning of equipment or disposal of wastes

PHYSICAL OR CHEMICAL HAZARDS - Do not use, your, spill or store near neat cr open flame.



BFC Chemicals, Inc. 4311 Lancaster Price of the Price 2007 Wilmington, DE 19645

*Trademark of FBC Liu

5-81 M-947(2)-061DS

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

STORAGE AND DISPOSAL

Percent by Weight

19%

8100

100°

Store NORTRON E.C. in a cool of ace above 32°F. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited

Pesticide Disposal

Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to Federal. State or local procedures under the Resource Conservation and Recovery Act.

Container Disposal

Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other approved State and local procedures.

Consult Federal, State or Local disposal authorities for approved alternative procedures.

SUGAR BEETS

GENERAL INFORMATION: NORTRON E.C. is a selective herbicide for use in sugar beets for the control of the weed species listed below. It provides effective control of these weeds for up to 10 weeks following application.

Weed Species Controlled

Annual Broadleaf Weeds

Black nightshade Common chickweed Common lambsquarters Common purslane Kochia Ladysthumb Pennsylvania smartweed Redroot pigweed

Portulaça oleracea Kochia scoparia Polygonum persicaria Polygonum pensylvanicum Amaranthus retroflexus Russian thistle Salsola kalı var. tenuifolia Wild buckwheat Polygonum convolvulus

Annual Grass Weeds

Annual bluegrass Barnyardgrass* Canarygrass Green foxtail Large crabgrass Volunteer barley Volunteer wheat Wild oats* Yellow foxtail

Poa annua Echinochloa crus-galli Phalaris canariensis Setaria viridis Digitaria sanguinalis Hordeum sp. Triticum sp. Avena latua Setaria glauca

Solanum nigrum

Chenopodium album

Stellaria media

*Control of wild pats has been inconsistent in Minnesota and North Dakota.

**Control of barnyardgrass may be reduced with the NORTRON E.C. + Pyramin* *

tank-mix because of the lower rate of NORTRON E.C. recommended.

NORTHON E.C. alone will also reduce competition from these HARD TO CONTROL weeds.

Annual sowthistle Puncturevice hephardstrurse Purple nutseage Yellow nutsedge

Sonchus oleraceus Inbulus terrestris Capsella bursa pastoris Cyperus rotundus Cyperus esculentus

al weeds controlled by the NORTP ... + Pyramin tank-mix in sugar beet.

Annual sowthistle Black mustard Buffalobur Coast fiddleneck Common groundsel Common ragweed Cutleaf nightshade Groundcherry Henbit Nettleleaf goosefoot Prickly lettuce Prostrate knotweed

Shepherdspurse

Sonchus oleraceus Brassica nigra Solanum rostratum Amsinckia intermedia Senecio vulgaris Ambrosia artemisiiloliu Solanum triflorum Physaks SDD Lamium amplexicaule Chenopodium murale Lactuca serriola Polygonum aviculare Car sella bursa-pastoris

PREPARATION: The soil should be prepared according to good agricultural ces. Large clods can reduce the effectiveness of NORTRON E.C. and tank-All existing vegetative growth should be thoroughly worked into the soil treatment.

Y EQUIPMENT: Apply NORTRON E.C. alone or in tank-mixes to the soil using ard low pressure (20-50 psi) spray equipment. Spray equipment should be tiy calibrated before use and checked frequently during application to see is functioning properly. Do not use smaller than 50 mesh strainer. Uniformly the recommended rates of NORTRON E.C. or NORTRON tank-mixes in 10-50 is of water per acre. Avoid overlaps since crop injury may result. When apply-ORTRON E.C. or tank-mixes in a band, check to make certain that the band is accurate for the dosage rate being applied.

pray tank and lines should be thoroughly cleaned and rinsed prior to using RON E.C.

HPORATION EQUIPMENT: Where soil incorporation is recommended use a d-power or ground-driven rotary tiller, rolling cultivator or similar equipment rly adjusted to uniformly incorporate NORTRON E.C. or tank-mixes to a depth 2 inches. Deeper incorporation may reduce effectiveness. Do not apply NOR-E.C. or tank-mixes through soil injector shanks. Incorporation should be aclished prior to planting; or if done after planting, proper precautions should en to avoid damaging or moving the crop seed. See below for Layering Ap-

RING APPLICATION: Spring: Form beds with appropriate bedding equpment. gate field if necessary. Remove bed top with suitable deridging machinery to le a minimum width of 10" across the top of the bed. Apply NORTRON E.C. in I at the recommended rate indicated in the appropriate regional dosage table ever the treated band with 1 inch of soil using ditchers or discs equipment the bed with roller shaper and irrigate until the top of the beds are ighly wetted. Irrigate from furrows on both sides of the row

his method of application can be used when spring moisture is marginal or irrigation water is not available at planting time. Fall bedding utilizes the accumulated moisture to enhance activation of the herbicide and to aid in nation of the sugar beet crop.

e the field (as for planting; plow, pack, and froat, etc.) in the fall risually late inber or Octuber, Apply NORTRON E.C. in a band on the 30 I surface at the mended rate indicated in the appropriate regional dosage table. Be sure that

Cover the treated bands with soil and form beds or ridges using ditchers or discs In the spring when the soil is sufficiently dry to be worked, de-ridge the beds down to within ½ to 1° of the treated layer using suitable equipment such as the Kirchner bedder or Oregon Northslope harrow. When de-ridging, maintain the original bedding guidance system by using a bull tongue chisel, slide guides or similar equipment. This will ensure that the planter will follow in the treated band. Plant sugar beets in the de-ridged area when the soil conditions allow.

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MIXING DIRECTIONS: When mixing NORTRON E.C. in the spray tank with Pyramin or TCA, add NORTRON E.C. first. Agitate spray solution thoroughly and continuously. See Pyramin label for additional mixing directions.

GENERAL APPLICATION

Sugar beets grown under rainfall; Apply NORTRON E.C. alone or in tank-mix preemergence at time of planting or shortly after, but prior to weed germination. NORTRON EC or tank-mix does not require mechanical soil incorporation provided that sufficient rainfall occurs shortly following application to activate the chemical. One-half inch of rainfall is usually adequate for activation. In areas where rainfall can be marginal for activation, such as the Red River Valley (Minnesota and North Dakota), it is recommended that NORTRON E.C. or the tankmix be applied before or at the time of planting and incorporated into the soil.

Sugar beets grown under furrow irrigation: Apply NORTRON E.C. alone or in a tankmix to the soil surface preplant or at time of planting, but prior to weed germination, and incorporate into the soil. Where sugar beets are grown in beds, apply NORTRON E.C. or tank-mix after bedding and incorporate. Since NORTRON E.C. or tank-mix must have moisture to control weeds effectively, irrigate until tops of beds are thoroughly wetted

Sugar beets grown under sprinkler irrigation: Apply NORTRON E.C. alone or in tank-mix preemergence at time of planting or shortly after, and irrigate prior to crop and weed germination. Repeat irrigation as necessary to maintain good moisture in upper soil layer. Apply at least one-half inch of water during first irrigation. Do not mechanically incorporate NORTRON E.C. or tank-mix into the soil under sprinkler irrigation.

ALL REGIONS DOSAGE TABLE 1 (All Regions Except North Dakota and Minnesota):

	RATE	RATE OF NORTRON E.C. PER ACRE (1)			
		7-Inch Band Width (2)			
Soil Texture	Broadcast	22" Row	28" Row	30" Row	
Coarse Textured Soils Sands, loamy sands and sandy loams	³4 to 1°4 Gallons	2 to 314 Pints	112 to 212 Pints	114 to 214 Pints	
Medium Textured Soils: Silt loams, clay loams which con- tain less than 3% organic matter	1'a to 2 Gallons	3'4 to 5 Pints	212 to 4 Pints	214 to 33/4 Pints	
Fine Textured Soils Clay loams which coritain more than 3' organic matter and clays	2 to 212 Gallons	5 (0 6'4 Pints	4 to 5 Pints	3 ³ 4 to 4 ³ 4 Pints	

⁽¹⁾ Use the higher rate within elicii soil texture category on the finer textured soils and/or where kochia, purnyaritglass or black nightshade are expected to be a problem

⁽²⁾ For other band or row widths, adjust the rate in proportion to the area actually treated

REGIONAL RECOMMENDATIONS:

CALIFORNIA (WINTER-GROWN SUGAR BEETS ONLY)

ORTRON E.C. + Pyramin (tank-mix):

s tank-mix controls the additional broadleaf weeds specified in the weed table searches recommended in Dosage Table 2

OSAGE TABLE 2 (California, winter-grown sugar beets only):

	NORTRO PER A		PYRAMIN PER ACRE		
Soi! Texture	Broadcast (For calibration purposes only)	1 1	Broadcast (For calibration purposes only)		
Coarse Textured Soils: Cands, loamy sands and sandy loams		NOT RECO	MMENDED		
Medium Textured Soils. Silt loams, clay loams which contain less than 6 organic matter		2 ² /a to 3 ¹ /a Pints	4 Pounds	1's Pounds	
Fine Textured Soils: Clay loams which con- ain more than 3% organic matter and clays	11/3 to 134 Gallons	3½ to 4½ Pints	4 Pounds	1'ı Pounds	

⁽¹⁾ For other band or row widths, adjust rates in proportion to the area actually treated. Do not apply this mixture broadcast

Inder sprinkler irrigation or where natural rainfall is adequate, apply this tank-mix reemergence. See Pyramin label for precautions regarding application of prinkler irrigation. Where furrow irrigation is to be used, apply preplant. Prepare seedbed or form beds for planting. Then use rotary tiller type of incorporation and ncorporate not more than 2 inches deep. Plant sugar beets and irrigate. Sub-rigate until tops of beds are thoroughly wetted.

Precautions: Do not exceed 3/4 inch of sprinkler irrigation per set until the beets nave two true leaves. Do not use the mixture under conditions where Pyramin alone is not recommended. Before use, read the Pyramin label for additional information and precautions.

CENTRAL AND EASTERN STATES, INCLUDING MICHIGAN AND OHIO: NORTRON E.C. + Pyramin (tank-mix):

This tank-mix controls the additional weed, common ragweed and other broadleaf weeds specified in the weed table. Apply preemergence at the time of planting or shortly after, but before weed germination using recommended rates listed in Dosage Table 3. Do not mechanically incorporate the herbicides into the soil as crop injury may result. Do not use this tank-mix where Pyramin alone is not recommended. Before use, read Pyramin label for additional information and precautions.

DOSAGE TABLE 3 (Central and Eastern States only):

DOUNGE	INGLE 1	(00,000	SIN CASI	,,,,		
	NOR'	TRON E C	ACRE	PY	RAMIN/AC	RE
	Broad	7-Inch Ba	nd Width 1	Broad-	7-Inch Bar	nd Width ^{ill}
Soil Texture	cast	22" Row	28" Rc	cast	22" Row	28" Row
Coarse Textured Soils: Sandy Ioams only	1 Gallon	2°2 Pints	2 Pints	3 Pounds	1 Pound	1/4 Pound
Medium Textured Soils: Silt and clay loans which contain less than 3% organic matter	11/3 Gallons	313 Pints	2 ² 3 Pints	4 Pounds	11.4 Pounds	1 Pound
Fine Textured Soi's: Clay loams which contain more than 3% organic matter and clays	1 ² / ₃ Gallons	4% Pints	31.3 Pints	4 Pounds	114 Pounds	1 Pound

⁽¹⁾ For other band or row widths, adjust the rate in proportion to the area actually treated.

NORTRON E.C. + TCA (tank-mix):

The control of certain grass weeds, particularly yellow foxfall and barnyardgrass, can be enhanced by the use of this tank-mix

Apply preemergence, at time of planting or shortly after, but prior to weed germination. Apply at rates recommended in Dosage Table 4, Before use, read TCA label for additional information and precautions.

DOSAGE TABLE 4 (Central and Eastern States, including Michigan and Ohio):

	NORTRON E.C./ACRE		TCA/ACRE '		
		7-Inch Band		7-Inch Band 2	
Soil Texture	Broadcast	28" Row	Broadcast	28" Row	
Coarse Textured Soils	1	2			
Sandy loams only	Gallon	Pints	3 Quarts	1י2 Pints	
Medium Textured Soils. Silt and clay loams which contain less than 3° organic matter	1 ½ Gallons	24 i Pints	1 Gailon	1 Quart	
Fine Textured Soils Clay loanis which con- tain more than 3° organic matter and clays	2 Gallons	4 Pints	1 Gallon	1 Quart	

⁽¹⁾ Based on commercial liquid formulation containing the equivalent of 6 pounds of dry 90% sodium TCA per gallon

²⁾ Use the higher rate of NORTRON E.C. within each soil texture category on finer-textured soils where volunteer barley or wheat are expected to be a problem.

⁽²⁾ For other band or row widths, adjust the rate in proportion to the area actually treated.

NOTA AND MINNESOTA:

#ORTRON E.C. alone, apply at recommended rates listed in Dosage

SAGE TABLE 5 (North Dakota and Minnesota only):

	NORTHON E.C./ACRE		
		7-Inch Band Width	
exture	Broadcast	22" Row	
Textured Soils loams only	2 Gallons	5 Pints	
im Textured Soils. -ams and clay -	2 Gallons	5 Pints	
extured Soils. Clays	212 Gallons	614 Pints	

and or row widths, adjust the rate in proportion to the area actually

E.C. + TCA (tank-mix):

cenhances the control of yellow foxtail (pigeongrass) and barnyardially on fine-textured soils. Apply to the soil surface preplant or at ing and incorporate into the soil. Apply at recommended rates listed able 6. Before use, read TCA tabel for additional information and

ISAGE TABLE 6 (North Dakota and Minnesota only):

	RATE OF NORTRON E.C./ACRE		RATE OF TCA/ACRE	
	Broadcast	7-Inch Band ⁻² 22" Row	Broadcast	7-Inch Band (22" Row
ured Soils:	1½ Gallons	334 Pints	11/4 Gallons	314 Pints
dured Soils:	2 Gallons	5 Pints	1'4 Gailons	31 a Pints
ed Soils:	2½ Gallons	614 Pints	114 Gallons	314 Pints

commercial figure formulation containing the equivalent of 6 pounds a sodium TCA per gallon.

band or row widths, adjust the rate in proportion to the area actually

Fall-applied) + NORTRON E.C. (Spring-applied) — Treatment:

of certain weeds, particularly yellow foxtail and redroot pigweed can by the sequential treatment of Eptam 7E applied in the Fall followed application of NORTRON E.C., Furthermore, the addition of NOR provides up to 19 weeks control of susceptible weeds

n 7E in the Fall in accordance with directions on the label

'RON E.C. in the Spring to the soil surface preplant or at the time of d incorporate into the soil. Apply at recommended rates listed in le 7. This sequential treatment is not recommended for use on coarse le

in areas or under conditions where Eptam 7E is not recommended read Eptam 7E label for additional information and precautions

DOSAGE TABLE 7 (North Dakota and Minnesota only):

	NORTRON E.C. PER ACRE			
Soil Texture	Broadcast	7-Inch Band Width 22" Row		
Coarse Textured Soils. Sands, loarny sands and sandy loams	NOT RECOMMENDED			
Medium Textured Soils Sitt loams & clay loams	2 Gallons	5 Pints		
Fine Textured Soils Heavy clays	2 Gallons	5 Pints		

(1) For other band or row widths, adjust the rate in proportion to the area actually treated.

CULTURAL PRACTICES FOLLOWING APPLICATION:

When properly applied NORTRON E.C. alone or in tank-mix will provide up to 10 weeks, control of susceptible weed species. When cultivating fields in which NORTRON E.C. or tank-mixes have been banded, care should be exercised to minimize the movement of untreated soil into the treated band. Where a broadcast application has been made, do not cultivate deeper than two inches or this may reduce the effectiveness of NORTRON E.C. or tank-mixes.

GENERAL USE PRECAUTIONS:

NCRTRON E.C. or tank-mixes should be used only for recommended purposes and at recommended rates (DO NOT OVERTREAT).

Apply tank-mixes only in specified regions or states and in accordance with directions on the label.

NORTRON E.C. applied alone or in tank-mixes according to label directions and under normal growing conditions may cause temporary leaf fusion, distortion and stunting. Crop injury may occur during early growth when crop is stressed due to herbicide residue carryover, highly saline or alkaline soils, unusually cold and wet weather or improperly placed fertilizers or soil insecticides.

Unusually dry, windy weather following application of NORTRON E.C., which dries the upper soil layer, may reduce effectiveness.

Do not rotate with any crops other than sugar beets for 12 months after application. Thorough tillage, including moldboard plowing, should precede the planting of crops other than sugar beets.

If crop is lost due to climatic or soil conditions following application of NORTRON E.C. or tank-mixes, do not plant crops other than sugar beets in treated land during the same season. Do not retreat field with NORTRON E.C.. If fields are replanted to sugar beets, reseed into treated band.

Do not mix NORTRON E.C. or tank-mixes with liquid fertilizers

Do not allow spray mixture to stand in tank overnight. Flush and drain spray equipment after each day's use. Store unused spray mixture in tightly sealed containers and protect from frost.

Where NORTRON E.C. is used in a tank-mix with TCA, do not use treated sugar beet tops for feed or forage.

Do not use NORTRON E.C. in water having a temperature below 40°F, as crystallization of spray mixture may occur in the nozzles and strainers.

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