45639 -- 8 PM-23 Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060, Approval expires 11-30-93 United States Environmental Protection Agency OPP Identifier Number Registration Office of Pesticide Programs (H7505C) Washington, DC 20460 Amendment 158740 **Application for Pesticide:** Other Section I 3. Proposed Classification 2. EPA Product Manager Company/Product Number Joanne I. Miller 45639-8 X None Restricted 4. Company/Product (Name) Nortron® SC 23 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) AgrEvo USA Company (b)(i), my product is similar or identical in composition and labeling Little Falls Centre One 2711 Centerville Road Wilmington, DE 19808 EPA Reg. No. Check if this is a new address Product Name Section II Final printed labels in response to Amendment - Explain below Agency letter dated Resubmission in response to Agency letter dated "Me Too" Application X Notification - Explain below Other - explain below Explanation: Use additional page(s) if necessary. (For section I and Section II.) Deleting Nortron® SC use with Antor®, as Antor® is no longer registered. Section III 1. Material This Product Will Be Packaged In: Child Resistant Packaging Water Soluble Packaging 2 Type of Container Unit Packaging Metal Yes' Yes Plastic Glass No Paper If "Yes." If 'Yes.' No, per No. per Other (Specify) Unit Package wgt container Package wgt * Certification must be container submitted. **Location of Label Directions** 3. Location of Net Contents Information Size(s) of Retail Container On Label __ Container On Labeling accompanying product 6. Manner In Which Label Is Affixed To Product Lithograph Paper glued Stendled Section IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Name Telephone No. (Include Areu Code) (302) 852-3034 Vickie Forster Registration Specialist Certification 6. Date Application Regaived I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. Lacknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or (ப்amped) both under applicable law 2 Signature Registration Specialist 4. Typed Name 5. Date

Vickie Forster

August 31, 1995



Specimen Label

A company of Hoechst and NOR-AM

Nortron[®] SC

HERBICIDE

EPA Registration Number 45639-8



Nortron SC

SUSPENSION CONCENTRATE

SUGAR BEET HERBICIDE

For selective control of weeds in sugar beets

GRASS SEED HERBICIDE

For Selective Control of Weeds in Certain Grass Seed Crops and Commercial Sod Production in California, Idaho, Oregon, and Washington

ACTIVE INGREDIENT

Percent by Weight

Ethofumesate: (2-ethoxy-2, 3-dihydro-3, 3-dimethyl-

5-benzofuranyl methanesulfonate*) **INERT INGREDIENTS:**

58%

TOTAL 100%

This product contains 4.0 lbs. active ingredient per gallon. Product of United Kingdom

EPA Reg. No. 45639-8

KEEP OUT OF REACH OF CHILDREN

Avoid contact with skin, eyes, or clothing

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with tinger. Do not induce vomiting or give anything by mouth to an unconscious person.

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

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFETY INQUIRIES. OR IN CASE OF FIRE. LEAKING. OR DAMAGED CONTAINERS, INFORMATION MAY BE **OBTAINED BY CALLING 800-228-5635, EXT. 202.**

PRECAUTIONARY STATEMENTS **HAZARDS TO HUMANS** AND DOMESTIC ANIMALS CAUTION

Harmful if cwallowed, inhaled, or absorbed through 5l.in. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist.

FIRST AID—In case of contact, immediately flush eyes or skin with plenty of water.

PERSONAL PROTECTIVE EQUIPMENT Applicators and Other Handlers Must Wear:

- □ Long sleeved shirt and long pants
- ¬ Waterbréot gloves
- ¬ Shoes plus socks

Follow manufacturer's instructions for cleaning/main faining PPL. It no such instructions for washables, use detergent and hot water. Keep and wash PPI separately from other laundry

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170,240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS Users should:

- □ Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- **¬** Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions tayor drift from target area. Do not contaminate water when disposing of equipment washwaters.

GENERAL USE PRECAUTIONS

NORTRON® SC or tank-mixes should be used for recommended purposes and at recommended rates only. (DO NOT OVERTREAL)

Do not graze livestock on treated crops.

Do not apply this product through any type of irrigation system.

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

Do not rotate with any crops other than sugar beets or ryegrass for:

- ☐ 12 months following preplant incorporated, preemer gence, conventional postemergence applications, or split (low rate) applications totalling more than 12 fl. oz. (0,375 lb. ai/acre);
- ☐ 6 months following split (low-rate) postemergence applications totalling 12 ff. oz. (0.375 lb. ai/acre) or less.

^{*}Protected by U.S. Patent No. 4,188,202

Thorough tillage, including moldboard plowing, should procede the planting of crops other than sugar beets or ryegrass. Do not use NORTRON SC on muck or peat soils.

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.

This label must be in the possession of the user at the time of pesticide application.

SHAKE CONTAINER WELL BEFORE USING

STORAGE AND DISPOSAL

STORAGE: Protect NORTRON SC from freezing temperatures.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. 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.

DO NOT REUSE EMPTY CONTAINER.

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 a way that will contact workers or others persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nursenes, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPF), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 1.2 hours

"Exception: if the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated."

PPF required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- □ Waterproof gloves
- □ Shoes plus socks

SUGAR BEETS

GENERAL INFORMATION

NORTRON SC is a selective herbicide for use in sugarbeets for the control of the weed species listed below. It provides effective control of these weeds for up to 10 weeks following application.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of NORTRON SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

CAUTION

Annual Broadleaf Weeds

Folk wing a preemergence treatment of NORTRON SC, do not in 'y conventional rates of NORTRON SC postemergen in where more than 6 pints were applied preplant or preemergence. No more than a total of 1 gallon of NORTRON SC should be applied in a single growing season. See Use Precautions for additional information on proper use.

WEED SPECIES CONTROLLED

Black nightshade	Solanum nigrum
Common chickweed	Stellaria media
Common lambsquarters	Chenopodium album
	Portulaca oferacea
Kochia	Kochia scoparia
	Polvgonum persicaria
Pennsylvania smartweed	Polygonum pennsylvanicum -
Redroot pigweed	Amaranthus retroilexus
	Salsola kali var. tenuifolia -
Wild buckwheat	Polygonum convolvulus
Annual Grass Weeds	
Annual bluegrass	Poa annua
Barnyardgrass*	Echinochloa crus-galli
	Phalaris canariensis
Green foxtail	Setaria viridis
Large crabgrass	Digitaria sanguinalis
Volunteer barley	
Volunteer wheat	Iriticum sp.
- Wild oats**	Təsəsə Avena fatua -
 Pyramin tank mix because of the Unended 	sluced with the NERS KONSC # ower rate of NOR RV2NSC record \$444
- **Control of wild oats has been incons	astent in Minnes रहे तैंगेते रिनेंth Dakegg
NORTRON SC alone will al-	so reduce competition from \mathbb{T}_{++}
these HARD TO CONTROL	weeds: Control
Annual Sowthistle	Sokkikis oleraceus
Puncturexine	Fribakis tenestus
Shepherdspurse	Capseka buksa pastoris
	Cyperus rotundus
	(xpērus esculentus)
	edited regions or states and in

accordance with directions on label

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PREPLANT INCORPORATED AND PREEMERGENCE APPLICATIONS

SOIL PREPARATION: The soil should be prepared according to good agricultural practices. Large clods can reduce the effectiveness of NORTRON SC and tank-mixes. All existing vegetative growth should be thoroughly worked into the soil before treatment.

SPRAY EQUIPMENT: Apply NORTRON SC alone or in tank-mixes to the soil using standard low pressure (20~50 psi) spray equipment. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Do not use smaller than 50-mesh strainer. Uniformly apply the recommended rates of NORTRON SC or NORTRON SC tankmixes in 10 to 60 gallons of water per acre on a broadcast basis. Avoid overlaps since crop injury may result. When applying NORTRON SC or tank-mixes in a band, check to make certain that the band width is accurate for the dosage rate being applied.

The spray tank and lines should be thoroughly cleaned and rinsed prior to using NORTRON SC.

INCORPORATION EQUIPMENT: Where soil incorporation is recommended use a hooded-power or ground-driven rotary tiller, rolling cultivator or similar equipment properly adjusted to uniformly incorporate NORTRON SC or tankmixes to a depth of 1 to 2 inches. Deeper incorporation may reduce effectiveness. Do not apply NORTRON SC or tank-mixes through soil injector shanks. Incorporation should be accomplished prior to planting. If done after planting, proper precautions should be taken to avoid damaging or moving the crop seed. See below for Layering Application.

LAYERING APPLICATION: Spring: Form beds with appropriate bedding equipment. Pre-irrigate field if necessary. Remove hed top with suitable de-ridging machinery to provide a minimum width of 10° across the top of the bed. Apply NORTRON SC in a band at the recommended rate indicated in the appropriate regional dosage table and cover the treated band with 1 inch of soil using ditchers or discs equipment. Shape the bed with roller shaper and irrigate until the tops of the beds are thoroughly wetted. Irrigate from furrows on both sides of the row. Fall: This method of application can be used when spring moisture is marginal or where irrigation water is not available at planting time. Fall bedding utilizes the winter-accumulated moisture to enhance activation of the herbicide and to aid in germination of the sugar beet crop.

Prepare the neld sas for planting; plow, pack, and float, etc.), in the faif, usually late September or October. Apply NOFIRON SC in a band to the soil surface at the recommended rate indicated in the appropriate regional dosage table. Be sure that the soil surface to be treated is free of treat and vergetation.

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 1/2" 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 plant is will follow in the treated band. Plant sugar beets in the de-ridged area when the soil conditions allow.

GENERAL APPLICATION

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Sugar beets grown under rainfall: Apply NORTRON SC alone or in a tank-mix preemergence at time of planting or shortly after, but prior to weed germination. NORTRON SC 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 SC or the tank-mix be applied before or at the time of planting and incorporated into the soil.

Sugar beets grown under furrow irrigation: Apply NORTRON SC alone or in a tank-mix 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 SC or tank-mix after bedding and incorporate. Since NORTRON SC 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 SC 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 SC or tank-mix into the soil under sprinkler irrigation.

CULTURAL PRACTICES FOLLOWING APPLICATION:

When properly applied, NORTRON SC alone or in a tank mix will provide up to 10 weeks control of susceptible weed species. When cultivating fields in which NORTRON SC 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, as this reduces the effectiveness of NORTRON SC or tank-mixes.

NORTRON SC ALONE

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

Rate of NORTRON 5C per Acre 7-inch Band Width? Soil Texture 28" Row Broadcast 22" Row 30" Row Coarse Textured Soils: 1 10 1 Sands, foams, sands and halo 1 ter 1 sandy loams Pints Pints Pints Pints Medium Texture **S**oils odt Joams, clas Joams which contain less than 3 . ns 6 11000 140.1 Link Peris Palergame matter Profs Pints Pany Fine Textured Soils: silt loams, Clay loams class which contain more Posts A se the higher rate within, early see? "exture rategory on, the invertexture scale and or

where koolber have sucknass or his kinglitchade an expect of to by a problem. For other band or electively lists action, the rate in proportion of the given a careful, the resp.

DOSAGE TABLE 2 (North Dakota and Minnesota only);

		NORTRON SC/acre To inch Band Width'
Soil Texture	Broadcast	22" Row
Coarse Textured Soils: Singly loanneously	6 Paets	J. Pinis
Medium Textured Soils: Self to anscand clay leave.	6 Pint	3 Pasts
Eme Textured Soils (10 (a) x + lay x	1 Pints	2 Pents

. For office band series, waiths, add of the rate in properties of the special half, is even

NORTRON SC + ANTOR® 4ES (TANK-MIX) CALIFORNIA, COLORADO, MONTANA, NEBRASKA, TEXAS, AND WYOMING ONLY:

This tank-mix controls these additional weeds:

Italian ryegrass (annual) Lolium multi-florum
Annual sowthistle Sonchus oleraceus
Fall panicum Panicum dichotomiflorum
Loxtail millet Setaria italica
Groundcherry Physalis longifolia
Junglerice Echinochloa colonum
Prostrate pigweed Amaranthus blitoides
Shepherdspurse Capsella bursa-pastoris
Witchgrass Panicum capillare

NORTRON SC + ANTOR 4ES tank-mix 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 NORTRON SC + ANTOR 4ES tank-mix 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 SC where a broadcast preemergence treatment of ANTOR 4ES is followed by a band overlay of NORTRON SC preemergence. The same dosage rates should be used as in the tank-mix.

Refer to Dosage Table 3 for recommended rates.

MIXING DIRECTIONS: When mixing NORTRON SC in the spray tank with ANTOR 4ES, fill the spray tank with 15 or the total amount of water to be used and add NORTRON SC first. Agitate spray solution thoroughly and continuously. See ANTOR 4ES label for additional mixing directions.

Before use, read the ANTOR 4ES label for additional information and precautions.

DOSAGE TABLE 3 (California, Colorado, Montana, Nebraska, Texas, and Wyoming only):

Soil Texture	ANTOR 4ES Per Acre ¹	NORERON SO Per Acre
Coarse:		
Loamy sands and		
sandy toams	11 Quarts	1 Quarts
Medium:	•	
Loanis and silt loams	⊋ Quarts	7 Quarts
Fine:	** ** *	
Clay loams and clays	Sto 4 Quarts	2 ≠ Quarts

Use higher rate on beary clay soils

NORTRON SC + PYRAMIN** (TANK-MIX)

This tank-mix controls these additional broadleaf weeds:

Annual sowthistle Sonchus oleraceus
Black mustard Brassica nigra
Buffalobur Solanum rostratum
Coast fiddleneck Amsinckia intermedia
Common groundsel Senecio vulgaris
Common ragweed Ambrosia artemisiifolia
Cutleaf nightshade Solanum triflorum
Groundcherry Physalis spp.
Henbit Lamium amplexicaule
Nettleleaf goosefoot Chenopodium murale
Puckly lettuce Lucius astriola
Prostrate knotweed Polygonum aviculare
Shepherdspurse Capsella bursa pastoris

MIXING DIRECTIONS: When mixing NORTRON SC in the spray tank with Pyramin, fill the spray tank with ½ of the total amount of water to be used and add NORTRON SC first. Agitate spray solution thoroughly and continuously. See Pyramin label for additional mixing directions.

CALIFORNIA (winter-grown sugar beets only): Under sprinkler irrigation or where natural rainfall is adequate, apply this tank-mix preemergence. See Pyramin label for precautions regarding application of sprinkler irrigation. Where furrow irrigation, is to be used, apply preplant incorporated. Prepare seedbed or form beds for planting. Then use rotary tiller type of incorporation and incorporate not more than 2 inches deep. Plant sugar beets and irrigate. Sub-irrigate until tops of beds are thoroughly wetted. Refer to Dosage Table 4 for recommended rates.

DOSAGE TABLE 4
(California, winter-grown sugar beets only):

		ION SC Acre	PYRAMIN DE Per Acre		
Soil Texture	(For calibration	Width	Broadcast (For Calibration purposes only)	Width	
Coarse Textured Soils: Sands, fourly sands and sandy loans			MMENDED		
Medium Textured Soils: Silt loams clay loams which contain less than 3% organic matter			4 Pounds	L ₂₂ Pounds	
Fine Textured Soils: Clay loams which contain more than 3% organic matter and clay			4 Pounts	T'. Pounds	

For other band or easy widths, adjust rates in proportion to the area action is related. Do not apply this most medicast

Use the higher rate of NORTRON SC within each soil texture category on the tiperites tured soils and or where volunteer badey or wheat are expected to be a p- ϕ or ϕ

PRECAUTIONS: Do not exceed 1/4 inch of sprinkler irrigation per set until the beets have two true leaves. Do not use the tank-mix 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: This tank-mix controls the additional weed, common ragweed, and other broadleat 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 5. 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 prequitions.

DOSAGE TABLE 5
(Central and Eastern States Only):

,	NORTRON SC/Acre			PYRAMIN FL/Acre		
Soil Texture	Broad- cast		ind Width [†] 28' Row		Tinch Ba 22 Row	ar Widhi' 28° Row
Coarse Textured Soils, Saint, himms orns	3 Pints	1 Pint	ra Part			Ot s
Medium Textured Soils: Silt and class loans which contains loss than Companie matter		l Piers	T Pag	*		())
Fine Textured Soils: Clay loants when the contains more than the contains that the contains that the contains that the contains the co	i Prots	1 Pine	* . P - * .			1 (1)

7 9 25

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

MICHIGAN and OHIO ONLY: A tank-mix of NORTRON SC + ANTOR 4ES + Pyramin may be used in Michigan and Ohio for control of the additional weeds:

Common ragweed	Brassica kaber
Pennsylvania smartweed	
Common lambsquarters	•
Common purslane	
	Chenopodium murale
Common chickweed	Stellaria media
	m amplexicaule
	Thlaspi arvense
	Kochia scoparia
Russian thistle	Salsofa kali
Volunteer barley	<i>Hordeum</i> sp.:
Volunteer wheat	<i>Triticum</i> sp.:
Ladysthumb	Polygonum persicaria

for preemergence use without irrigation, apply the tankmix to the soil surface at the time of planting or shortly after, but prior to weed germination. Use rates recommended in Dosage Table 6.

Do not use this mixture under conditions where Pyramin alone is not recommended. Before use, read the Pyramin and ANTOR 4ES labels for additional information and precautions.

MIXING DIRECTIONS: When mixing NORTRON SC in the spray tank with Pyramin and ANTOR 4ES, 24 the spray tank with ½ of the total amount of water to be used and add NORTRON SC first and ANTOR 4ES last. Agitate spray solution thoroughly and continuously. See ANTOR 4ES and Pyramin labels for additional mixing directions.

DOSAGE TABLE 6 (Michigan and Ohio only)

Broadcast Rates Per Acre			
NORTRON SC	ANTOR 4E5	PYRAMIN FL	
(pts.	(qts.)	(qts.)	
;	1	?* ±	
4		211	
		3 '.	
	NORTRON SC	NORTRON SC ANTOR 4ES (pts.) (qts.)	

PREPLANT AND PREEMERGENCE USE PRECAUTIONS

NORTRONS Capplied alone or in tank-mixes according to label directions and under normal growing conditions may cause temporary leaf fusion, distortion and stunting. Cropainjers may exact during early growth when crop is stressed due to herbi; ide residue carryover, highly saline or alkaline reals, unusually cold and wet weather or improperly placed to littlizers or soil insecticides.

Unusually city, windy weather following application of NORTRON SC, which dries the upper soil layer, may reduce effectiveness.

DO NOT OVEREREAT: The use of higher than recommended rates may cause beet injury and/or carry over problems.

Crop Planting Precautions: It crop is lost due to unfavorable growth conditions following treatment, do not replant

with crops other than sugar beets or ryegrass in treated land during the same season. If fields are replanted to sugar beets, reseed into treated band. Do not retreat field with conventional rates of NORTRON SC in the same season.

POSTEMERGENCE APPLICATION GENERAL INFORMATION

The tank-mixes of NORTRON SC plus BETAMIX® or BETANEX® applied postemergence broaden and enhance the control of weeds. The choice of tank-mixes is dependent upon weed species present. NORTRON SC alone is not recommended for postemergence use.

Tank-mixes of NORTRON SC plus BETAMIX or BETANEX applied postemergence control the following weeds:

Annual Broadleaf Weeds

Annual sowthistle	Sonchus oleraceus
Black nightshade	Solanum nigrum
Hairy nightshade	Solanum sarrachoides
Coast fiddleneck	
Common chickweed	
Common lambsquarters	
Common ragweed	
Groundcherry	
Kochia*	
Ladysthumb	
London rocket	
Nettleleaf goosefoot	
Pennsylvania smartweed	
Prostrate pigweed	
Redroot pigweed	
Purslane	
Shepherdspurse	
Wild buckwheat	
Wild mustard	
*Spray kochia while in the rosette star	
Spray Korona synte in the tose in Sign	S / W IZHDI OHN HINTI OF CHRISTS W.

Annual Grass Weeds

Annual E	Huegras	š	 			roa annua
Canarygi	ass		 		. Phalaris	canariensis
				** ** * * * * * * * * * * * * * * * *		

Additionally, a tank-mix of NORTRON SC plus BETAMIX applied postemergence also controls the following annual grass weeds:

Mixing the Spray: Add NORTRON SC to the water in the spray tank followed by BETAMIX or BETANEX while agitating the spray solution thoroughly. Refer to the BETAMIX or BETANEX labels for additional precautions and information on mixing.

Spray Equipment: Apply the mixture using standard low pressure (20–60 psi) spray equipment. Ensure that the sprayer is thoroughly clean. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Uniformly apply the recommended rate in 20–60 gallons of water per acre on a broadcast basis or 5–10 gallons of water per acre in a band. Avoid overlaps, since crop injury may result. When applying in a band, check to make certain that the band width is accurate for the dosage rate being applied. Do not use strainer smaller than 50 mesh.

Moisture Following Application/Residual Weed Control:

Rainfall or sprinkler irrigation within 6 hours of spraying may reduce weed control; however, with conventional rates moisture after this period of time is advantageous for moving NORTRON SC into the top layer of soil where it can be absorbed by the roots of sprayed and germinating weeds to provide optimum control. One-half inch or more of sprinkler irrigation is required to activate NORTRON SC on most soil types.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of NORTRON SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

CAUTION

Following a preemergence treatment of NORTRON SC, do not apply conventional rates of NORTRON SC postemergence where more than 6 pints were applied preplant or preemergence. No more than a total of 1 gallon of NORTRON SC should be applied in a single growing season. See Use Precautions for additional information on proper use.

SPLIT (LOW RATE) APPLICATIONS

Split (low rate) applications of NORTRON SC + BETAMIX or BETAMEX may be applied to sugar beets to control early germinating weeds (the tank-mix of NORTRON SC + BETAMEX may be used in all sugar beet areas except California). The first spray must be applied when the earliest emerging weeds have reached cotyledon size. See Dosage Table 7 for broadcast rates. See Dosage Table 8 for equivalent band rates. For band applications, apply in 5–10 gallons of water per acre. Any weeds which are not completely controlled by the first treatment will usually be checked and controlled by repeat applications. The repeat application should be made 5 to 7 α - s after the preceding application or when another flush of weeds germinates. If second application is delayed, conventional applications as described below will be necessary.

DOSAGE TABLE 7 DOSAGE CHART FOR BROADCAST APPLICATION

Pints/Acre Broadcast

Sugar Beet Stage	NORTRON SC + BETAMIX	NORTRON SC + BETANEX
Cotyledon	D 275 4 1 505	0.25 + 1.50
2 Leas	(3.3.4 ≥ 06)	0334700
4 feat	() () () () ()	(1 5(1 + ₹ i)ii

DOSAGE TABLE 8 BETAMIX OR BETANEX DOSAGE CHART FOR BAND APPLICATION

Broadcast	Band	BAND RATE ROW SPACING			
Equivalent	Width	22"	28"	30"	
1.5 pints acre	7 (m) 7 (m)	1 1 1 102 4 1 1 202	43th oz 6 úth oz	4.0 (f. 6) 5.6 (f. 6)	
Patpints in n	* (- 0	ing et age Variet eiz	5 4 62 80 ft 62	s titl oz 15 ill oz	
CO pints gen	e*************************************	Entertion Fig. (1) and	Statlesz 12 ual oz	8 (411 mz 31 (341 mz	

DOSAGE TABLE 9 NORTRON SC DOSAGE CHART FOR BAND APPEICATION

Broadcast	Band	BAND RATE ROW SPACING			
Equivalent	Width	22"	28"	30"	
O 25 pints/acre	t ₃ "	ogt oz	0.24 02	0 " fl. oz	
	7"	1.3 (0.02)	10th oz	0.9 ft 62.	
0.33 pints/acre	(₎ "	1.2 fl. oz	0.9 if oz	0.9 ft az.	
	7"	1.7 tf. oz	1 +th. az	1.2 ft oz.	
0.5 pints/acre	5"	1.8 # 02	1.4 (1.62	(38 az	
	7"	25 H oz	2001.02	191 07	

CONVENTIONAL APPLICATIONS

Timing of Application: Apply the tank-mix NORTRON SC + BETANEX or NORTRON SC + BETAMIX when sugar beets have at least 4 fully expanded true leaves. Apply at rates recommended in the Dosage Tables. Use the higher rate of NORTRON SC where increased residual weed control is desired. Where Eptam has been applied preplant (fall or spring applied), do not apply NORTRON SC + BETAMIX or BETANEX tank-mix before the sugar beets have 6 expanded true leaves.

See Postemergence Use Precautions for additional information on proper use.

NORTRON SC + BETAMIX (TANK-MIX)

NORTRON SC applied postemergence in a tank-mix with BETAMIX broadens and enhances the control of trouble-some weeds. Furthermore, preemergence control of susceptible weeds which may germinate following treatment can be obtained provided overhead moisture is sufficient to activate NORTRON SC.

WEED SPECIES CONTROLLED

Group I: Weeds controlled up to the 6-leaf stage.

Redroot pigweed	Amaranthus retroflexus
Wild mustard	Brassica kaber
Nettleleaf goosefoot	
London rocket	
Common lambsquarters	Chenopodium album

Group II: Weeds controlled up to the 4-leaf stage.

Common chickweed	Stellaria media
	Solanum nigrum
	Ambiosia artemisiitolia
	Capsella bursa-pastoris
	Physalis lanceifolia
Pennsylvania smartweed	. Polygonum pennsylvanicum
	Polygonum persicaria
Prostrate pigweed	Amaranthus blitoides
Coast fiddleneck	Amsinckia intermedia

Group III! Weeds controlled up to the 2-leaf stage.

Annual sowthistle	Sonchus oleraceus
Kochia*	
Common purstane**	Portulaca oleracea :
Prostrate knotweed	Polygonum aviculais
Wild buckwheat	Polygeoùm oonvolvulus
Green foxtail***	` Setaria viridis`
Yellow toxtail (pigeongrass)***	👀 (พิหลิกล glaucă)
Annual bluegrass***	Poa ann.ia
Canarygrass***	. Phalaris canariensis

^{*}Spray kocha while in the resette stage, less than 1% or gigmeter.

^{**}Catoup If word in California

^{***} For best control, overhead moisture required

DOSAGE TABLE 10

Rate	of NORTRO	N SC	Per Aci	re¹	Rate o	É BETAMIX	Per A	cre1	
Broadcas	at Band'	Ro	w Spac	ing	Broadcast	Band ²		w Spac	ing
Rate	Width (in.)	22"	28"	30°	Rate	Width (in.)	22"	28"	30°
256-3 Pints	7	Sc. L. Post	% % Pint	⊊. 57 Pint	45 6 Pints			1 - 1% Pints	

Use the higher rate on larger weeds and sugar beets

For other hand or row widths, adjust rates in proportion to the area actually treated

NORTRON SC + BETANEX (TANK-MIX)

ALL AREAS EXCEPT CALIFORNIA: NORTRON SC applied postemergence in a tank-mix with BETANEX broadens and enhances the control of troublesome weeds. Furthermore, preemergence control of susceptible weeds which may germinate following treatment can be obtained provided overhead moisture is sufficient to activate NORTRON SC.

WEED SPECIES CONTROLLED

Group I: Weeds controlled up to the 6-leaf stage.

Redroot pigweed	Amaranthus retroflexus
Wild mustard	Brassica kaber
Nettleleaf goosefoot	Chenopodium murale
London rocket	Sisymbrium irio
Common lambsquarters	Chenopodium album

Group II: Weeds controlled up to the 4-leaf stage.

Common chickweed	Stellaria media
Black nightshade	Solanum nigrum
Common ragweed	Ambrosia artemisiifolia
Shepherdspurse	Capsella bursa-pastoris
Groundcherry	Physalis lanceitolia
Pennsylvania smartweed	Polygonum pennsylvanicum
Ladysthumb	Polygonum persicaria

Group III: Weeds controlled up to the 2-leaf stage.

Annual sowthistle	Sonchus oleraceus
Common purslane	Portulaca oleracea
Wild buckwheat	Polygonum convolvulus
Kochia*	* 1 *

[&]quot;Spray Kochia while in the rosette stage, less than Γ' in diameter

DOSAGE TABLE 11 (all areas except California):

Rate	ofNORTRO	N SC	Per Ac	rei	Rate	H BETAND	V Per #	\cre ¹	
n 1	. 15 12	Ro	w Spac	ing	Broadcast	n. 1/	Ro	w Spac	ing
Broadcas					:			201	20"
Rate	Width (in.)	22"	28"	30"	Rate	Width (in.)	22"	28"	30"
2 . 4		34.3	17.04		41, 6		1 :	100	1
Pints		Pint	Pint	Papt	41, 6 Pints	7	2	1.	154
							Pints	Piots	Pmts

It se the higher rate on larger weeds and sugar beets

POSTEMERGENCE USE PRECAUTIONS: Make only one conventional application of NORTRON SC + BETANEX or BETAMIX tank-mix during each growing season,

: Do bot apply NORTRON 5C + BETANEX or BETAMIX tank , . pgis to sugar begas later than 90 days prior to harvest.

• Crop Planting Procautions: If crop is lost due to unfavorable growth conditions following treatment, do not replant with crops other than sugar beets or ryograss in treated land during the same season. If fields are replanted to sugar beets, reseed two treated band. Do not retreat field with conventional races of NORTRON SC in the same season.

***SORTRON SC + BETANEX OR BETANIX MAY CAUSI SUGAR BEET INJURY OR STAND LOSS IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOIL LOWING CONDITIONS:

- Rapid climatic changes from cool, overcast days, to hot (80°F or over), bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the evening when the temperature is lower.
- frost within seven days following treatment;
- Windy or drought conditions;
- Use of a preplant or preemergence herbicide or other chemicals;
- □ Insect or disease injury;
- ☐ Close cultivation.

If stress conditions are present, delay application until crop has recovered.

DO NOT OVERTREAT: The use of higher-than-recommended rates may cause beet injury and/or carry over problems.

Do not spray while dew is present.

Rainfall or sprinkler irrigation within 6 hours of application may reduce weed kill.

Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

IMPORTANT: This tank-mix may cause temporary growth retardation and/or chlorosis or tip-burn on sugar beets. Sugar beets usually resume normal growth within 10 days.

NORTRON SC MIXTURES WITH FERTILIZERS NORTRON SC IMPREGNATION ON DRY BULK FERTILIZERS

NORTRON SC 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 NORTRON SC label and supplementary literature instructions and precautions regarding rates per acre, soil type and soil incorporation, application and other directions must be followed.

All individual state regulations relating to dry bulk tertifizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the NORTRON fertilizer mixtures.

A minimum of 200 pounds and a maximum of 700 pounds of approved fertilizer ingredients (2) impregnated with the appropriate amount of NORTRON SC 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 NORTRON SC should be sprayed uniformly onto the fertilizer using a fine spray pattern.

The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with NORTRON SC provides a satisfactory dry mixture.

If the absorptivity is not adequate, use of a highly absorptive powder is required to provide a dry, free flowing misture. Microcel E (Johns Manville Products Corporation) is the recommended absorbent 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.

For other band or ross splidths, adjust rates an proportion to the area actually treated

The amount of NORTRON SC 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 NORTRON SC actually contained in the fertilizer mixture applied to the soil represents the correct dosage rate.

Bulk fertilizers impregnated with NORTRON SC should be applied immediately, NOT STORED.

NORTRON SCIMPREGNATION ON DRY BULK FERTILIZERS

 Approved dry fertilizer ingredients for use with NORTRON SC

	N	P	K
Ammonium sulfate	21	0	()
Ammonium phosphate-sulfate	16	20	()
Diammonium phosphate	18	46	()
Monoammonium phosphate	31	56	0
Potassium chloride	()	O	60
Potassium sultate	()	0	52
Single superphosphate	0	20	()
Triple superphosphate	()	46	Ó
Urea	45	0	0

NORTRON SC PHYSICAL DATA

Density	-1.14 g/cm^3
Pounds/gallon	9.50

Flashpoint Non-combustible

2. Rate Chart for the Impregnation of Dry Bulk Fertilizers with NORTRON SC:

Fertilizer Rate		. 6/	
per Acre	0.75 G/acre	1 G/acre	1.50 G/acre
200	2.80 G/ton	3.75 G/ton	5.63 G/ton
250	2.25 G/ton	3.00 G/ton	4.50 G/ton
300	1-88 G/ton	2.50 G/ton	3.75 G/ton
350	1.59 G/ton	2.16 G/ton	3.19 G/ton
400	1.41 G/ton	1.88 G/ton	2.81 G/ton
450	1.25 G/ton	1.69 G/ton	2.50 G/ton
500	1.13 G/ton	1.50 G/ton	2.25 G/ton
550	1.03 G/ton	1.38 G/ton	2 06 G/ton
$\Theta(0)$	0.94 G/ton	1.25 G/ton	1.88 G/ton
650	0.87 G/ton	1.13 G/ton	1.75 G/ton
700	0.80 G/ton	1.08 G/ton	1.62 G/ton

NORTRON SC WITH LIQUID FERTILIZERS

The following procedure is suggested for evaluation of physical compatibility of NORTRON SC in mixtures with liquid fertilizers for spray tank application.

MATERIAL REQUIRED

- NORTRON SC-- components of tank-mixes if intended for use
- 2. Liquid fertilizer to be used
- 3. Adjuvant for fertilizer tank mix: Compex* or E-Z Mix**.
- 4. Two (or more) one quart, wide mouth containers with lids or stoppers
- 5. Measuring spoons ~(25 ml pipette or graduated cylinder provides more accurate measurement)
- б. Measuring cup, 8 ft. oz. (237 ml)
- *Compex Kalo Laboratories, Inc., Kansas City, MO
- **E.Z.Mox United Agri Products, Circelex, CO

PROCEDURE

- Four 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 NORTRON SC 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.

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- 5. Inspect the surface and body of the mixture:
 - e. immediately after mixing,
 - b. after allowing mixtures 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 a NORTRON SC + 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 non-dispersible oil, sludge or clumps of solids form in the mixtures, those combinations should not be used for spray tank application.

RATE TABLE FOR NORTRON SC MIXTURES WITH LIQUID FERTILIZERS

Gal. of Liquid Fertilizer to be applied per acre		ORTRON SC to be int of fertilizer
	ml	tsp.
20	17.6	3.6
3()	12.0	2.4
4()	9,()	1.9
5()	7.1	1,5
60	6.0	1.2

*Based on field use rate of 3.0 fb. a(facre (% gal/acre) in the tertifizer volumes indicated. Adjust amount of NORTRON SC added proportionate by to correspond with intended field use rate recommended on NORTRON SC label for soil type. Add the proportionate amount of tank mix component (e.g., ANTOR 4ES, Pyramme) if intended for use, based on volume of NORTRON SC used in the test.

RYEGRASS, TALL FESCUE, AND BENTGRASS SEED CROPS

GENERAL INFORMATION

NORTRON SC is a selective herbicide for use in ryegrass, tall fescue, and bentgrass seed crops in California, Idaho. Oregon, and Washington. It effectively contrôls or reduces competition from those weed species listed below. NORTRON SC may be applied preemergence to new seedings of annual or perennial ryegrass or postemergence to perennial ryegrass, tall fescue, or bentgrass. Application to bentgrass is restricted to plantings which have been established to one year or longer. Soil should be mors! at time of application. NORTRON SC is less effective when applied to dry soil. Rainfall or overhead irrigation shortly after application is necessary for activation.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of NORTRON SC in the soil is reduced as the soil texture becomes finer and organic matter/thatch increases.

WEEDS CONTROLLED

Annual bluegrass	Poa annua
Seedling Rattail fescue	Festuca myuros
Seedling volunteer wheat	Triticum spp.
Seedling volunteer barley	Hordeum spp.
Soft chess	Bromus mollis
Seedling Wild oats	Avena fatua
Downy brome	
Common chickweed	Stellaria media -
Common vetch	Vicia sativa
Common velvetgrass	Holcus lanatus
Mannagrass	<i>Glyceria</i> spp.
Barnyardgrass	Echinochioa crus-galli
Canarygrass	Phalaris canatiensis
Green foxtail	Setaria viridis
Large crabgrass	Digitaria sanguinalis
Yellow foxtail	

Spray equipment: Use a fixed boom power sprayer properly calibrated to a constant speed and rate of delivery. Do not use smaller than 50-mesh strainer. Avoid overlapping of spray swath. Shut off boom while starting, turning or stopping to avoid overlapping. Apply in 10 to 50 gallons of water per acre at low pressure (20–50 psi).

Soil preparation: A firm, fine and level seedbed free of trash and vegetative matter will provide best results from preemergence applications. Large clods can reduce effectiveness of NORTRON SC. All existing vegetative growth should be thoroughly worked into the soil before treatment.

NEW SEEDINGS OF ANNUAL OR PERENNIAL RYEGRASS

Before weed emergence: Apply NORTRON SC after seeding and prior to weed emergence. For best results apply to moist soil. Apply 1% to 3 pints per acre. Use the lower rate for control of annual bluegrass and common chickweed. For control of rattail fescue, wild oats, and volunteer cereals and other weeds listed, use 2% to 3% pints per acre.

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but not later than the 4-leat stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply 2½ to 3¼ pints per acre. Use the highest rate where rattail fescue, wild oats, and volunteer cereals are present and where weed infestation is heavy.

NEW SEEDINGS OF FALL-PLANTED PERENNIAL RYEGRASS AND TALL FESCUE TREATED WITH DIURON PLUS CHARCOAL

Timing of application: Apply NORTRON SC following crop emergence, and after sufficient rainfall and/or overhead irrigation has occurred to dissipate the charcoal band tapproximately 4 inches). Use dosage rates listed in table below. Sufface debris may result in reduced weed control. Tailure to allow for complete dissipation of the charcoal band may result in reduced weed control within the crop taw. For best, results, apply NORTRON SC to a moist soil surface.

Before using theron, read the diuron label for rate recommendations; turning of applications, directions for use and precautionary statements. Do not exceed maximum dosage rates for either herbicide.

NOTE: Do not apply NORTRON SC when crop shows diuton injury.

DOSAGE TABLE 12

Стор	Rate Per Acre	Remarks
perennal (yegrass and tall fescue	17- to 3 pints	For effective control, annual bluegrass must be treated before the 4-leaf stage; rattail fescue; wild oats, and volunteer wheat must be treated before the 2-leaf stage. Use the lower rate for control of annual bluegrass and common chickweed, use the higher rate for control of rattail fescue, wild oats, and other weeds listed.

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but not later than the 4-leaf stage. Rattail fescue, will toats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply 2½ to 3½ p.nts per acre. Use the highest rate where rattail fescue, wild oats, and volunteer cereals are present and where weed infestation is heavy.

ESTABLISHED STANDS OF PERENNIAL RYEGRASS AND TALL FESCUE

Before weed emergence: Apply NORTRON SC at 21/4 to 31/4 pints per acre prior to weed emergence. Use higher rate where rattail fescue, wild oats, and volunteer cereals are expected to be a problem. For best results, apply to moist soil. Crop residue and debris will reduce effectiveness of treatment and should be removed or destroyed.

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but not later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply 21 to 3 pints per acre. Use the higher rate where rattail fescue, wild oats, and volunteer cereals are present. Where wood pressure is very heavy and rattail fescue is at the maximum stage of growth for treating, a rate of 3% pints of NORTRON SC is recommended.

ESTABLISHED STANDS OF BENTGRASS: Apply only to well-established stands which have been seeded for not less than 12 months. Stravy from previous crop must be removed or destroyed. Failure to do so may result in reduced weed control.

Before weed emergence: Apply NORTRON SC at 1½ to 3 pints per acre prior to weed emergence. Use higher rate where rattail fescue, wild oats, and volunteer cereals are expected to be a problem. For best results, apply to moist soil.

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but no later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply at the rate of 1½ to 3 pints per acre. Use higher rate when rattail fescue, wild oats, and volunteer cereals are a problem. Do not apply more than 3 — as of NORTRON SC per acre on bentgrass.

USE PRECAUTIONS

(For use in California, Idaho, Oregon, and Washington only): NORTRON SC may cause stunting and stand reduction of newly seeded perennial ryegrass and fall fescue, if the crop is planted late in the fall and subjected to adverse crimatic conditions or pesticides which restrict normal growth

It vegetative matter or stover from previous crop was burned, sufficient raintall or overhead irrigation must have occurred to dissipate the charcoal residue remaining after burning prior to NORTRON SC treatment. Failure to allow for dissipation of charcoal residue may result in reduced weed control.

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COMMERCIAL SOD PRODUCTION

GENERAL INFORMATION

NORTRON SC is a selective herbicide for use in established and newly planted tall fescue and perennial ryegrass grown for sod in California, Idaho, Oregon, and Washington. NORTRON SC may be applied preemergence or postemergence for the control of weed species listed below. Overhead irrigation or rainfall shortly after application is necessary for activation.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of NORTRON SC in the soil is reduced as the soil texture becomes finer and organic matter/thatch increases.

WEEDS CONTROLLED

Annual bluegrass	Poa annua
Large crabgrass	
Green foxtail	
Yellow foxtail	Setaria glauca
Canarygrass	Phalaris canariensis
Volunteer barley	Hordeum sp
Volunteer wheat	Triticum sp.
Wild oats	Avena fatua
Rattail fescue	Festuca myuros
Common velvetgrass	Fioleus lanatus
Mannagrass	Glyceria sp.
Downy brome	
Soft chess	

(For use in California, Idaho, Oregon, and Washington only): Spray equipment: Use a fixed boom power sprayer properly calibrated to a constant speed and rate of delivery. Do not use smaller than a 50-mesh strainer. Avoid overlapping of spray swath. Shut off boom while starting, turning or stopping to avoid over-application. Make applications in 10 to 50 gallons of water per acre at low pressure (20 to 50 psi).

Soil preparation: All existing vegetative matter should be thoroughly worked into the soil surface before planting. Large clods, trash or vegetative matter left on the soil surface will reduce effectiveness of the NORTRON SC treatment.

NEWLY PLANTED PERENNIAL RYEGRASS AND TALL FES- CUE GROWN FOR SOD: Apply NORTRON SC to newly planted areas when crop reaches the 2-3 leaf stage of growth. For best results, apply to moist soils.

Before weed emergence: Apply NORTRON SC at 2½ to 3 pints per acre prior to weed emergence. Use the higher rate where rattail tescue, wild oats, and volunteer cereals are expected to be a problem.

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but no later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply NORTRON SC at 2% to 3 pints per acre.

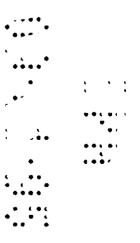
ESTABLISHED PERENNIAL RYEGRASS AND TALL FESCUE

SOD: For preemergence and/or postemergence control of susceptible weeds, apply NORTRON SC prior to weed emergence or at the earliest possible weed growth stage, but not later than the 4-leaf stage. For best results, apply to moist soils. Apply NORTRON SC at 2½ to 3 pints per acre. Repeat applications at 4 to 8 week intervals may be needed to maintain weed control. DO NOT apply more than 1 gallon of NORTRON SC per acre per growing season.

USE PRECAUTIONS

(For use in California, Idaho, Oregon, and Washington only): NORTRON SC may cause stunting and stand reduction of newly seeded perennial ryegrass and tall fescue, if the crop is planted late in the fall and subjected to adverse climatic conditions or pesticides which restrict normal growth.

If vegetative matter or stover from previous crop was burned, sufficient rainfall or overhead irrigation must have occurred to dissipate the charcoal residue remaining after burning prior to NORTRON SC treatment. Failure to allow for dissipation of charcoal residue may result in reduced weed control.



IMPORTANT: READ BEFORE USE

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

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond AgrEvo USA Company's control, it is impossible for AgrEvo USA Company to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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> Replaces NSC SELLIMA (D930806) For 19193 Revisions Include

- ▼ palent#
- add "tank mox" to footnote #1 work. Alread Species (notrolled) pg 4.
- Species Controlled pg 4

 pg 9 delete (Aniironium roteite 1) impreg on Dr. Bolk





Nortron[®] SC

A company of Hoechst and NOR-AM

Specimen Label

Nortron SC. HERBICIDE

EPA Registration Number 45639-8



Nortron SC

SUSPENSION CONCENTRATE

SUGAR BEET HERBICIDE

For selective control of weeds in sugar beets

GRASS SEED HERBICIDE

For Selective Control of Weeds in Certain Grass Seed Crops and Commercial Sod Production in California, Idaho, Oregon, and Washington

ACTIVE INGREDIENT

Percent by Weight

ethofumesate: (2-ethoxy-2,3-dihydro-3,3-dimethyl-

5-benzofuranyl methanesulfonate*)

TOTAL

INERT INGREDIENTS:

42% 58% 100%

*Protected by U.S. Patent No. 4,188,202

This product contains 4.0 lbs. active ingredient per gallon. Product of United Kingdom

EPA Reg. No. 45639-8

KEEP OUT OF REACH OF CHILDREN Avoid contact with skin, eyes, or clothing

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink one or two glasses of water and induce comiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

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

IF INHALED: Remove victim to fresh air, if not breathing. give artificial respiration, preferably mouth to mouth. Get medical attention.

IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFE TY INQUIRIES. OR IN CASE OF FIRE, LEAKING, OR DAMAGED CONTAINERS, INFORMATION MAY BE **OBTAINED BY CALLING 800-228-5635, EXT. 202.**

PRECAUTIONARY STATEMENTS **HAZARDS TO HUMANS** AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist.

FIRST AID-In case of contact, immediately flush eyes or skin with plenty of water.

PERSONAL PROTECTIVE EQUIPMENT Applicators and Other Handlers Must Wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- ☐ Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately froi other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- a Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- ☐ Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target area. Do not contaminate water when disposing of equipment washwaters.

GENERAL USE PRECAUTIONS

NORTRON® SC Herbicide or tank-mixes should be used for recommended purposes and at recommended rates only. (DO NOT OVERTREAT.)

Do not graze livestock on treated crops.

Do not apply this product through any type of irrigation system.

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

Do not rotate with any crops other than sugar beets or ryegrass for:

- □ 12 months following preplant incorporated, preemergence, conventional posteriergence applications, or split (low rate) applications totalling more than 12 fl. oz. (0.375 lb. ai/acre);
- ☐ 6 months following splik (low rate) postemergence applications totalling 12 fl. oz. (0.375 lb. ai/acre) or less.

Thorough tillage, including moldboard plowing, should precede the planting of crops other than sugar beets or ryegrass. Do not use NORTRON SC on muck or peat soils.

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.

This label must be in the possession of the user at the time of pesticide application.

SHAKE CONTAINER WELL BEFORE USING

STORAGE AND DISPOSAL

STORAGE: Protect NORTRON SC from freezing temperatures.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. 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.

DO NOT REUSE EMPTY CONTAINER.

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 a way that will contact workers or others persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

"Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated."

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- a Shoes plus socks

SUGAR BEETS

GENERAL INFORMATION

NORTRON SC 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.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of NORTRON SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

CAUTION

Following a preemergence treatment of NORTRON SC, do not apply conventional rates of NORTRON SC postemergence where more than 6 pints were applied preplant or preemergence. No more than a total of 1 gallon of NORTRON SC should be applied in a single growing season. See Use Precautions for additional information on proper use.

WEED SPECIES CONTROLLED

TI CLO DI CCIES CO	TTROLLED
Annual Broadleaf Weeds	
Black nightshade	Solanum nigrum
Common lambsquarters	Chenopodium album
Common purslane	Portulaca oleracea
Kochia	Kochia scoparia
Ladysthumb	Polygonum persicaria
Pennsylvania smartweed Por	lygonum pennsylvanicum
Redroot pigweed	Amaranthus retroflexus
Russian thistle	Salsola kali var. tenuifolia
Wild buckwheat	. Polygonum convolvulus
Annual Grass Weeds	, 0
Annual biuegrass	Poa annua
Barnyardgrass*	Echipochlos crus-galli
Canarygrass	Phalaris canarionsis
Green foxtail	Sotaria viridie
Large crabgrass	Digitaria sanguinalie
Volunteer barley	Hordoumen
Volunteer wheat	Triticum sp.
Wild oats**	Avena fatua
Yellow foxtail	Sotoria alauca
*Control of harmonders are the audit and	with the KIODEDONIEC
"Control of barnyardgrass may be reduced Pyramin tank-mix because of the lower ra- mended.	ate of NORTRON SC recom-
**Control of wild oats has been inconsistent in	Minnosota and North Dakota
NORTRON SC alone will also red	
these HARD-TO-CONTROL week	
Annual Sowthistle	
Puncturevine	
Shepherdspurse	
Purple nutseage	Cyperus rotundus
Yellow nutsedge	• •
Apply tank-mixes only in specified	diregions or states and in

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

PREPLANT INCORPORATED AND PREEMERGENCE APPLICATIONS

SOIL PREPARATION: The soil should be prepared according to good agricultural practices. Large clods can reduce the effectiveness of NORTRON SC and tank-mixes. All existing vegetative growth should be thoroughly worked into the soil before treatment.

SPRAY EQUIPMENT: Apply NORTRON SC alone or in tank-mixes to the soil using standard low pressure (20–50 psi) spray equipment. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Do not use smaller than 50-mesh strainer. Uniformly apply the recommended rates of NORTRON SC or NORTRON SC tankmixes in 10 to 60 gallons of water per acre on a broadcast basis. Avoid overlaps since crop injury may result. When applying NORTRON SC or tank-mixes in a band, check to make certain that the band width is accurate for the dosage rate being applied.

The spray tank and lines should be thoroughly cleaned and rinsed prior to using NORTRON SC.

INCORPORATION EQUIPMENT: Where soil incorporation is recommended use a hooded-power or ground-driven rotary tiller, rolling cultivator or similar equipment properly adjusted to uniformly incorporate NORTRON SC or tankmixes to a depth of 1 to 2 inches. Deeper incorporation may reduce effectiveness. Do not apply NORTRON SC or tank-mixes through soil injector shanks. Incorporation should be accomplished prior to planting. If done after planting, proper precautions should be taken to avoid damaging or moving the crop seed. See below for Layering Application.

LAYERING APPLICATION: Spring: Form beds with appropriate bedding equipment. Pre-irrigate field if necessary. Remove bed top with suitable de-ridging machinery to provide a minimum width of 10" across the top of the bed. Apply NORTRON SC in a band at the recommended rate indicated in the appropriate regional dosage table and cover the treated band with 1 inch of soil using ditchers or discs equipment. Shape the bed with roller shaper and irrigate until the tops of the beds are thoroughly wetted. Irrigate from furrows on both sides of the row. Fall: This method of application can be used when spring moisture is marginal or where irrigation water is not available at planting time. Fall bedding utilizes the winter-accumulated moisture to enhance activation of the herbicide and to aid in germination of the sugar beet crop.

Prepare the field (as for planting; plow, pack, and float, etc.), in the fall, usually late September or October. Apply NORTRON SC in a band to the soil surface at the recommended rate indicated in the appropriate regional dosage table. Be sure that the soil surface to be treated is free of trash and vegetation.

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.

GENERAL APPLICATION

Sugar beets grown under rainfall: Apply NORTRON SC alone or in a tank-mix preemergence at time of planting or shortly after, but prior to weed germination. NORTRON SC 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 SC or the tank-mix be applied before or at the time of planting and incorporated into the soil.

Sugar beets grown under furrow irrigation: Apply NORTRON SC alone or in a tank-mix 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 SC or tank-mix after bedding and incorporate. Since NORTRON SC 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 SC 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 SC or tank-mix into the soil under sprinkler irrigation.

CULTURAL PRACTICES FOLLOWING APPLICATION:

When properly applied, NORTRON SC alone or in a tankmix will provide up to 10 weeks control of susceptible weed species. When cultivating fields in which NORTRON SC 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, as this reduces the effectiveness of NORTRON SC or tank-mixes.

NORTRON SC ALONE

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

	Rate of NORTRON SC per Acre ¹			
•		7-in	ch Band Wi	dth²
Soil Texture	Broadcast	22" Row	28ª Row	30" Row
Coarse Textured Soils: Sands, loamy sands and sandy loams	21/4 to 3 1/4 Pints	% to 1% Pints	⅓ to 1 Pints	½ to 1 Pints
Medium Texture Soils: Silt loams, clay loams which contain less than 3% organic matter	3¼ to 6 Pints	11/4 to 2 Pints	1 to 1½ Pints	1 to 1½ Pints
Fine Textured Soils: Silt loams, clay loams, clays which contain more than 3% organic matter	6 to 71/2 Pints	2 to 2½ Pints	1½ to 2 Pints	1½ to 1½ Pints

¹Use the higher rate within each soil texture category on the finer texture soils and/or where Kochia, barnyardgrass or black nightshade are expected to be a problem.

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

DOSAGE TABLE 2 (North Dakota and Minnesota only):

		NORTRON SC/acr	
		7- inch Band Width	
Soil Texture	Broadcast	22" Row	
Coarse Textured Soils: Sandy loams only	6 Pints	2 Pints	
Medium Textured Soils: Sift loams and clay loams	6 Pints	2 Pints	
Fine Textured Soils: Heavy clays	71/2 Pints	2% Pints	

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

NORTRON SC + PYRAMIN®* (TANK-MIX)

This tank-mix controls these ad	lditional broadleaf weeds:
Annual sowthistle	
Black mustard	Brassica nigra
Buffalobur	Solanum rostratum
Coast fiddleneck	Amsinckia intermedia
Common groundsel	Senecio vulgaris
Common ragweed	Ambrosia artemisiifolia
Cutleaf nightshade	
Groundcherry	<i>Physalis</i> spp.
Henbit	Lamium amplexicaule
Nettleleaf goosefoot	Chenopodium murale
Prickly lettuce	Lactuca serriola
Prostrate knotweed	
Shepherdspurse	

MIXING DIRECTIONS: When mixing NORTRON SC in the spray tank with Pyramin, fill the spray tank with ½ of the total amount of water to be used and add NORTRON SC first. Agitate spray solution thoroughly and continuously. See Pyramin label for additional mixing directions.

CALIFORNIA (winter-grown sugar beets only): Under sprinkler irrigation or where natural rainfall is adequate, apply this tank-mix preemergence. See Pyramin label for precautions regarding application of sprinkler irrigation. Where furrow irrigation is to be used, apply preplant incorporated. Prepare seedbed or form beds for planting. Then use rotary tiller type of incorporation and incorporate not more than 2 inches deep. Plant sugar beets and irrigate. Sub-irrigate until tops of beds are thoroughly wetted. Refer to Dosage Table 4 for recommended rates.

DOSAGE TABLE 3 (California, winter-grown sugar beets only)

	–	tON SC /:-re	PYRAMIN DF Per Acre		
Soil Texture	Broadcast (For calibration purposes only)	1:-inch Band Width ¹² 30" Row	Broadcast (For calibration purposes only)	10-inch Band Width 30" Row	
Coarse Textured Soils: Sands, loamy sands and sandy loams		NOT RECO	MMENDED		
Medium Textured Soils: Silt loams, clay loams which contain less than 3% organic matter	3 to 31/4 Pints	1 to 1¼ Pints	41/2 Pounds	1½ Pounds	
Fine Textured Soils: Clay loams which contain more than 3% organic matter and clay	4 to 51/4 s Pints	11/a to 11/4 Pints	4½ Pounds	1% Pounds	

 $^{^3{\}rm For}$ other band or row widths, adjust rates in proportion to the area actually treated. Do not apply this mixture broadcast.

PRECAUTIONS: Do not exceed ¾ inch of sprinkler irrigation per set until the beets have two true leaves. Do not use the tank-mix 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: 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 5. 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 4 (Central and Eastern States Only):

	NORTRON SC/Acre			PYRAMIN FL/Acte		
_	Broad- 7-inch Band Widt		nd Width'	Broad-	7-inch Band Width	
Soil Texture	cart	22" Row	28" Row	Cast	22" Row	28° Row
Coarse Textured Soils: Sandy loams only	3 Pints	1 Pint	¾ Pint	21/4 Qts	1/4 Qts	¹⁄a Qt.
Medium Textured Soils: Sift and clay loams which contain less than 3% organic matter	4 Pints	1¼ Pints	1 Pint) Qts,	l Qu	1/4 QL
Fine Textured Soils: Clay loams which contain more than 3% organic matter and clays	5 Pints	1½ Pints	1¼ Pints	J Qts.	1 Qu	3/4 QL

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

PREPLANT AND PREEMERGENCE USE PRECAUTIONS

NORTRON SC 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 SC, which dries the upper soil layer, may reduce effectiveness.

DO NOT OVERTREAT: The use of higher than recommended rates may cause beet injury and/or carry over problems.

Crop Planting Precautions: If crop is lost due to unfavorable growth conditions following treatment, do not replant with crops other than sugar beets or ryegrass in treated land during the same season. If fields are replanted to sugar beets, reseed into treated band. Do not retreat field with conventional rates of NORTRON SC in the same season.

POSTEMERGENCE APPLICATION

GENERAL INFORMATION

The tank-mixes of NORTRON SC plus BETAMIX® or BETANEX® applied postemergence broaden and enhance the control of weeds. The choice of tank-mixes is dependent upon weed species present, NORTRON SC alone is not recommended for postemergence use.

Tank-mixes of NORTRON SC plus BETAMIX or BETANEX applied postemergence control the following weeds:

Annual Broadleaf Weeds

Allian Diodalcal Treeas	
Annual sowthistle	Sonchus oleraceus
Black nightshade	Solanum nigrum
Hairy nightshade	Solanum sarrachoides
Coast fiddleneck	Amsinckia intermedia
Common chickweed	Stellaria media
Common lambsquarters	Chenopodium album
Common ragweed	Ambrosia artemisiifolia
Groundcherry	Physalis lanceifolia
Kochia*	Kochia scoparia
	Polygonum persicaria
	Sisymbrium irio
Nettleleaf goosefoot	Chenopódium murale
Pennsylvania smartweed	Polygonum pennsylvanicum
	Amaranthus gracizans
	Amaranthus retroflexus

³Use the higher rate of NORTROM SC within each soil texture category on the finer-textured soils and/or where volunteer barley or wheat are expected to be a problem.

Purslane	Portulaca oleraceus
	Capsella bursa-pastoris
	Polygonum convolvulus
	Brassica kaber
*Spray kochia while in the rosette st	tage, less than one inch in diameter.
Annual Grass Weeds	

Annual bluegrass	Poa annua
Canarygrass	Phalaris canariensis

Additionally, a tank-mix of NORTRON SC plus BETAMIX applied postemergence also controls the following annual grass weeds:

Mixing the Spray: Add NORTRON SC to the water in the spray tank followed by BETAMIX or BETANEX while agitating the spray solution thoroughly. Refer to the BETAMIX or BETANEX labels for additional precautions and information on mixing.

Spray Equipment: Apply the mixture using standard low pressure (20–60 psi) spray equipment. Ensure that the sprayer is thoroughly clean. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Uniformly apply the recommended rate in 20–60 gallons of water per acre on a broadcast basis or 5–10 gallons of water per acre in a band. Avoid overlaps, since crop injury may result. When applying in a band, check to make certain that the band width is accurate for the dosage rate being applied. Do not use strainer smaller than 50-mesh.

Moisture Following Application/Residual Weed Control: Rainfall or sprinkler irrigation within 6 hours of spraying may reduce weed control; however, with conventional rates moisture after this period of time is advantageous for moving NORTRON SC into the top layer of soil where it can be absorbed by the roots of sprayed and germinating weeds to provide optimum control. One-half inch or more of sprinkler irrigation is required to activate NORTRON SC on most soil types.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of NORTRON SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

CAUTION

Following a preemergence treatment of NORTRON SC, do not apply conventional rates of NORTRON SC postemergence where more than 6 pints were applied preplant or preemergence. No more than a total of 1 gallon of NORTRON SC should be applied in a single growing season. See Use Precautions for additional information on proper use.

SPLIT (LOW RATE) APPLICATIONS

Split (low rate) applications of NORTRON SC + BETAMIX or BETANEX may be applied to sugar beets to control early germinating weeds (the tank-mix of NORTRON SC + BETANEX may be used in all sugar beet areas except California). The first spray must be applied when the earliest emerging weeds have reached cotyledon size. See Dosage Table 7 for broadcast rates. See Dosabe Table 8 for equivalent band rates. For band applications, apply in 5–10 gallons

of water per acre. Any weeds which are not completely controlled by the first treatment will usually be checked and controlled by repeat applications. The repeat application should be made 5 to 7 days after the preceding application or when another flush of weeds germinates. If second application is delayer' conventional applications as described below will be necessary.

DOSAGE TABLE 5
POSAGE CHART FOR BROADCAST APPLICATION

	Pints/Acre Broadcast					
Sugar Beet Stage	NORTRON SC + BETAMIX	NORTRON SC + BETANEX				
Cotyledon	0.25 + 1.50	0.25 + 1.50				
2 teaf	0.33 + 2.00	0.33 + 2.00				
4 iea	0.50 + 3.00	0.50 + 3.00				

DOSAGE TABLE 6 BETAMIX OR BETANEX DOSAGE CHART FOR BAND APPLICATION

Broadcast	Band	BAND RATE — ROW SPACING					
Equivalent	Width	22"	28"	30"			
1.5 pints/acre	5* 7*	5.5 fl. oz. 7.6 fl. oz.	4.3 fl. oz. 6.0 fl. oz.	4.0 fl. oz.			
2.0 ====================================				5.6 fl. oz.			
2.0 pints/acre	3" 7"	7.3 fl. oz. 10.2 fl. oz.	5.7 fi. oz. 8.0 fl. oz.	5.3 fl. oz. 7.5 fl. oz.			
3.0 pints/acre	5*	10.9 fl. oz.	8.6 fl. oz.	8.0 fl. oz.			
	7"	15.3 fl. oz.	12.0 fl. oz.	11.2 fl. oz			

DOSAGE TABLE 7 NORTRON SC DOSAGE CHART FOR BAND APPLICATION

Broadcast	Band	BAND RATE — ROW SPACING				
Equivalent	Width	Width 22°		30"		
0.25 pints/acre	5*	0.9 fl. oz.	0.7 fl. oz.	0.7 fl. oz		
•	ፖ	1.3 fl. oz.	1,0 fl. oz.	0.9 ft. oz		
0.33 pints/acre	5*	1.2 fl, oz.	0.9 fl. oz.	6 9 fl. oz		
	7"	1.7 fl. oz.	1.3 fl. oz.	1 2 fl. oz		
0.5 pints/acre	5"	1.8 fl. oz.	1.4 fl. oz.	1.3 fl. oz		
•	7"	2.5 fl. oz.	2.0 fl. oz.	1.9 fl. oz		

CONVENTIONAL APPLICATIONS

Timing of Application: Apply the tank-mix NORTRON SC + BETANEX or NORTRON SC + BETAMIX when sugar beets have at least 4 fully expanded true leaves. Apply at rates . ecommended in the Dosage Tables. Use the higher rate of NORTRON SC where increased residual weed control is desired. Where Eptam has been applied preplant (fall or spring applied), do not apply NORTRON SC + BETAMIX or BETANEX tank-mix before the sugar beets have 6 expanded true leaves.

See Postemergence Use Precautions for additional information on proper use.

NORTRON SC + BETAMIX (TANK-MIX)

NORTRON SC applied postemergence in a tank-mix with BETAMIX broadens and enhances the control of trouble-some weeds. Furthermore, preemergence control of susceptible weeds which may germinate following treatment can be obtained provided overhead moisture is sufficient to activate NORTRON SC.

WEED SPECIES CONTROLLED

Group I: Weeds controlled up to the 6-leaf stage.

Redroot pigweed	Amaranthus retroflexus
Wild mustard	Brassica kaber
Nettleleaf goosefoot	
London rocket	Sisymbrium irio
Common lambsquarters	Chenopodium album

Group II: Weeds controlled up to the 4-leaf stage.

Common chickweed	Stellaria media
Black nightshade	Solanum nigrum
Common ragweed	Ambrosia artemisi ifolia
Shepherdspurse	Capsella bursa-pastoris
Groundcherry	Physalis lanceifolia
Pennsylvania smartweed	Polygonum pennsylvanicum
Ladysthumb	Polygonum persicaria
Prostrate pigweed	Amaranthus blitoides
Coast fiddleneck	Amsinckia intermedia

Group III: Weeds controlled up to the 2-leaf stage.

Annual sowthistle	Sonchus oleraceus
Kochia*	Kochia scoparia
Common purslane**	Portulaca oleracea
Prostrate knotweed	Polygonum aviculare
Wild buckwheat	Polygonum convolvulus
Green foxtail***	Setaria viridis
Yellow foxtail (pigeongrass)***	Setaria glauca
Annual bluegrass***	Poa annua
Canarygrass***	Phalaris canariensis

^{*}Spray kochia while in the rosette stage, less than 1" in diameter.

DOSAGE TABLE 8

Rate of NORTRON SC Per Acre				Rate of BETAMIX Per Acre ¹					
Broadcast Band ²		Row Spacing		Broadcast	Band ²	Row Spacing			
Rate	Width (in.)	22"	28"	30"	Rate	Width (in.)	22"	28"	30*
21/4-3		74−1	1/2-3/4	1/2-2/3	41/2-6		11/2-2	1-11/2	1%
Pints	7	Pint	Pint	Pint	Pints	7	Pints	Pints	Pints

¹Use the higher rate on larger weeds and sugar beets.

NORTRON SC + BETANEX (TANK-MIX)

ALL AREAS EXCEPT CALIFORNIA: NORTRON SC applied postemergence in a tank-mix with BETANEX broadens and enhances the control of troublesome weeds. Furthermore, preemergence control of susceptible weeds which may germinate following treatment can be obtained provided overhead moisture is sufficient to activate NORTRON SC.

WEED SPECIES CONTROLLED

Group I: Weeds controlled up to the 6-leaf stage.

Redroot pigweed	. Amaranthus retroflexus
Wild mustard	Brassica kaber
Nettleleaf goosefoot	Chenopodium murale
London rocket	Sisymbrium irio
Common lambsquarters	Chenopodium album

Group II: Weeds controlled up to the 4-leaf stage.

Group III: Weeds controlled up to the 2-leaf stage.

Annual sowthistle	Sonchus pleraceus
Common purslane	Portulaca oleracea
Wild buckwheat	Polygonum cchvolvulus
Kochia*	Kochia scoparia

^{*}Spray Kochia while in the rosette stage, less than 1" in diamerter

DOSAGE TABLE 9 (all areas except California):

Rate of NORTRON SC Per Acre					Rate of BETANEX Per Acre ¹					
		Row Spacing				Row Spacing				
	t Band ² Width (in.)	22"	28*	30°	Broadcast Rate	. Band" Width (in.)	22"	28"	30"	
21/+3 Pints	7		1/2-1/4 Pint		4½-6 Pints	7	2	11/2 11/2 Piots	11/6	

¹Use the higher rate on larger weeds and sugar beets.

POSTEMERGENCE USE PRECAUTIONS: Make only one conventional application of NORTRON SC + BETANEX or BETAMIX tank-mix during each growing season.

Do not apply NORTRON SC + BETANEX or BETAMIX tankmix to sugar beets later than 90 days prior to harvest.

Crop Planting Precautions: If crop is lost due to unfavorable growth conditions following treatment, do not replant with crops other than sugar beets or ryegrass in treated land during the same season. If fields are replanted to sugar beets, reseed into treated band. Do not retreat field with conventional rates of NORTRON SC in the same season.

NORTRON SC + BETANEX OR BETAMIX MAY CAUSE SUGAR BEET INJURY OR STAND LOSS IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS:

- ☐ Rapid climatic changes from cool, overcast days, to hot (80°F or over), bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the evening when the temperature is lower.
- ☐ Frost within seven days following treatment;
- Windy or drought conditions;
- Use of a preplant or preemergence herbicide or other chemicals;
- Insect or disease injury;
- Close cultivation.

If stress conditions are present, delay application until crop has recovered.

DO NOT OVERTREAT: The use of higher-than-recommended rates may cause beet injury and/or carry over problems.

Do not spray while dew is present.

Rainfall or sprinkler irrigation within 6 hours of application may reduce weed kill.

Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

IMPORTANT: This tank-mix may cause temporary growth retardation and/or chlorosis or tip-burn on sugar beets. Sugar beets usually resume normal growth within 10 days.

NORTRON SC MIXTURES WITH FERTILIZERS NORTRON SC IMPREGNATION ON DRY BULK FERTILIZERS

NORTRON SC 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 NORTRON SC label and supplementary literature instructions and precautions regarding rates per acre, soil type and soil incorporation, application and other directions must be followed.

^{**}Group II weed in California.

^{***}For best control, overhead moisture required

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

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

All individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the NORTRON fertilizer mixtures.

A minimum of 200 pounds and a maximum of 700 pounds of approved fertilizer ingredients (2) impregnated with the appropriate amount of NORTRON SC 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 NORTRON SC should be sprayed uniformly onto the fertilizer using a fine spray pattern.

The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with NORTRON SC provides a satisfactory dry mixture.

If the absorptivity is not adequate, use of a highly absorptive powder is required to provide a dry, free-flowing mixture. Microcel E (Johns-Manville Products Corporation) is the recommended absorbent 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 NORTRON SC 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 NORTRON SC actually contained in the fertilizer mixture applied to the soil represents the correct dosage rate.

Bulk fertilizers impregnated with NORTRON SC should be applied immediately, NOT STORED.

NORTRON SC IMPREGNATION ON DRY BULK FERTILIZERS

 Approved dry fertilizer ingredients for use with NORTRON SC

	N	P	K
Ammonium nitrate	34	0	0
Ammonium sulfate	21	0	0
Ammonium phosphate-sulfate	16	20	0
Diammonium phosphate	18	46	0
Monoammonium 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

NORTRON SC PHYSICAL DATA

Density 1.14 g/cm³ Pounds/gallon 9.50

Flashpoint Non-combustible

2. Rate Chart for the !mpregnation of Dry Bulk Fertilizers with NORTRON SC:

Fo	rt i	lizar	Rate	
10		1120	nate	

per Acre	0.75 G/acre	1 G/acre	1.50 G/acre
200	2.80 G/ton	3.75 G/ton	5.63 C/ton
250	2.25 G/ton	3.00 G/ton	4.50 G/ton
300	1.88 G/ton	2.50 G/ton	3.75 G/ton
350	1.59 G/ton	2.16 G/ton	3.19 G/ton
400	1.41 G/ton	1.88 G/ton	2.81 G/ton
450	1.25 G/ton	1.69 G/ton	2.50 G/ton
500	1.13 G/ton	1.50 G/ton	2.25 G/ton
550	1.03 G/ton	1.38 G/ton	2.06 G/ton
600	0.94 G/ton	1.25 G/ton	1.88 G/ton
650	0.87 G/ton	1.13 G/ton	1.75 G/ton
700	0.80 G/ton	1.08 G/ton	1.62 G/ton

NORTRON SC WITH LIQUID FERTILIZERS

The following procedure is suggested for evaluation of physical compatibility of NORTRON SC in mixtures with liquid fertilizers for spray tank application.

MATERIAL REQUIRED

- NORTRON SC—components of tank-mixes if intended for use
- 2. Liquid fertilizer to be used
- 3. Adjuvant for fertilizer tank mix: Compex* or E-Z Mix**.
- 4. Two (or more) one quart, wide mouth containers with lids or stoppers
- 5. Measuring spoons—(25 ml pipette or graduated cylinder provides more accurate measurement)
- 6. Measuring cup, 8 fl. oz. (237 ml)
- *Compex—Kalo Laboratories, Inc., Kansas City, MO
- **E-Z Mix—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 NORTRON SC 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 mixtures 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 a NORTRON SC + 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 non-dispersible oil, sludge or clumps of solids form in the mixtures, those combinations should not be used for spray tank application.

RATE TABLE FOR NORTRON SC MIXTURES WITH LIQUID FERTILIZERS

Gal. of Liquid Fertilizer to be applied per acre	*ml or tsp. of NORTRON SC to be added to 1 pint of fertilizer	
	.nl	tsp.
20	17.6	3.6
30	12.0	2.4
40	9.0	1.9
50	7.1	1.5
60	6.0	1.2

*Based on field use rate of 3.0 lb. ai/acre (¾ gal/acre) in the fertifizer volumes indicated. Adjust amount of NORTRON SC added proportionately to correspond with intended field use rate recommended on NORTRON SC label for soil type. Add the proportionate amount of tank mix component (e.g., Pyramin) if intended for use, based on volume of NORTRON SC used in the test.

RYEGRASS, TALL FESCUE, AND BENTGRASS SEED CROPS

GENERAL INFORMATION

NORTRON SC is a selective herbicide for use in ryegrass, tall fescue, and bentgrass seed crops in California, Idaho, Oregon, and Washington. It effectively controls or reduces competition from those weed species listed below. NORTRON SC may be applied preemergence to new seedings of annual or perennial ryegrass or postemergence to perennial ryegrass, tall fescue, or bentgrass. Application to bentgrass is restricted to plantings which have been established for one year or longer. Soil should be moist at time of application. NORTRON SC is less effective when applied to dry soil. Rainfall or overhead irrigation shortly after application is necessary for activation.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of NORTRON SC in the soil is reduced as the soil texture becomes finer and organic matter/thatch increases.

WEEDS CONTROLLED

Annual bluegrass	Poa annua
Seedling Rattail fescue	Festuca myuros
Seedling volunteer wheat	Triticum spp.
Seedling volunteer barley	Hordeum spp.
Soft chess	Bromus mollis
Seedling Wild oats	
Downy brome	Bromus tectorum
Common chickweed	Stellaria media
Common vetch	
Con-mon velvetgrass	
Mannagrass	
Barnyardgrass	Echinochloa crus-galli
Canarygrass	Phalaris canariensis
Green foxtaii	Setaria viridis
Large crabgrass	Digitaria sanguinalis
Yellow foxtail	Setaria glauca
	•

Spray equipmen: Use a fixed boom power sprayer properly calibrated to a constant speed and rate of delivery. Do not use smaller than 50-mesh strainer. Avoid overlapping of spray swath. Shut off boom while starting, turning or stopping to avoid overlapping. Apply in 10 to 50 gallons of water per acre at low pressure (20–50 psi).

Soil preparation: A firm, fine and level seedbed free of trash and vegetative matter will provide best results from preemergence applications. Large clods can reduce effectiveness of NORTRON SC. All existing vegetative growth should be thoroughly worked into the soil before treatment.

NEW SEEDINGS OF ANNUAL OR PERENNIAL RYEGRASS

Before weed emergence: Apply NORTRON SC after seeding and prior to weed emergence. For best results apply to moist soil. Apply 1½ to 3 pints per acre. Use the lower rate for control of annual bluegrass and common chickweed. For control of rattail fescue, wild oats, and volunteer cereals and other weeds listed, use 2½ to 3¾ pints per acre.

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but not later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply 2½ to 3¾ pints per acre. Use the highest rate where rattail fescue, wild oats, and volunteer cereals are present and where weed infestation is heavy.

NEW SEEDINGS OF FALL-PLANTED PERENNIAL RYEGRASS AND TALL FESCUE TREATED WITH DIURON PLUS CHARCOAL

Timing of application: Apply NORTRON SC following crop emergence and after sufficient rainfall and/or overhead irrigation has occurred to dissipate the charcoal band (approximately 4 inches). Use dosage rates listed in table below. Surface debris may result in reduced weed control. Failure to allow for complete dissipation of the charcoal band may result in reduced weed control within the crop row. For best results, apply NORTRON SC to a moist soil surface.

Before using diuron, read the diuron label for rate recommendations, timing of applications, directions for use and precautionary statements. Do not exceed maximum dosage rates for either herbicide.

NOTE: Do not apply NORTRON SC when crop shows diuron injury.

DOSAGE TABLE 10

Crop	Rate Per Acre	Remarks
perennial ryegrass and tall fescue	1½ to 3 pints	For effective control, annual bluegrass must be treated before the 4-leaf stage; rattail fescue, wild oats, and volunteer wheat must be treat ed before the 2-leaf stage. Use the lower rate for control of annual bluegrass and common chickweed; use the higher rate for control of rattail fescue, wild oats, and other weeds listed

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but not later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply 2½ to 3¾ pints per acre. Use the highest rate where rattail fescue, wild oats, and volunteer cereals are present and where weed infestation is heavy.

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ESTABLISHED STANDS OF PERENNIAL RYEGRASS AND TALL FESCUE

Before weed emergence: Apply NORTRON SC at 2¼ to 3¾ pints per acre: prior to weed emergence. Use higher rate where rattail fescue, wild oats, and volunteer cereals are expected to be a problem. For best results, apply to moist soil. Crop residue and debris will reduce effectiveness of treatment and should be removed or destroyed.

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but not later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply 2¼ to 3 p. its per acre. Use the higher rate where rattail fescue, wild oats, and volunteer cereals are present. Where weed pressure is very heavy and rattail fescue is at the maximum stage of growth for treating, a rate of 3¾ pints of NORTRON SC is recommended.

ESTABLISHED STANDS OF BENTGRASS: Apply only to well-established stands which have been seeded for not less than 12 months. Straw from previous crop must be removed or destroyed. Failure to do so may result in reduced weed control.

Before weed emergence: Apply NORTRON SC at 1½ to 3 pints per acre prior to weed emergence. Use higher rate where rattail fescue, wild oats, and volunteer cereals are expected to be a problem. For best results, apply to moist soil.

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but no later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply at the rate of 1½ to 3 pints per acre. Use higher rate when rattail fescue, wild oats, and volunteer cereals are a problem. Do not apply more than 3 pints of NORTRON SC per acre on bentgrass.

USE PRECAUTIONS

(For use in California, Idaho, Oregon, and Washington only): NORTRON SC may cause stunting and stand reduction of newly seeded perennial ryegrass and tall fescue, if the crop is planted late in the fall and subjected to adverse climatic conditions or pesticides which restrict normal growth.

If vegetative matter or stover from previous crop was burned, sufficient rainfall or overhead irrigation must have occurred to dissipate the charcoal residue remaining after burning prior to NORTROM SC treatment. Failure to allow for dissipation of charcoal residue may result in reduced weed control.

PRODUCTION

GENERAL INFORMATION

NORTRON SC is a selective herbicide for use in established and newly planted tall fescue and perennial ryegrass grown for sod in California, Idaho, Oregon, and Washington. NORTRON SC may be applied preemergence or postemergence for the control of weed species listed below. Overhead irrigation or rainfall shortly after application is necessary for activation.

Residual control of weeds is dependent upon soil moisture conditions, rate of herbicide used, and soil texture. The activity of NORTRON SC in the soil is reduced as the soil texture becomes finer and organic matter/thatch increases.

WEEDS CONTROLLED

Annual bluegrass	Poa annua
Large crabgrass	Digitaria sanguinalis
Green foxtail	
Yellow foxtail	Setaria glauca
Canarygrass	Phalaris canariensis
Volunteer barley	Hordeum sp
Volunteer wheat	
Wild oats	
Rattail fescue	Festuca myuros
Common velvetgrass	Holcus lanatus
Mannagrass	
Downy brome	
Soft chess	

(For use in California, Idaho, Oregon, and Washington only): Spray equipment: Use a fixed boom power sprayer properly calibrated to a constant speed and rate of delivery. Do not use smaller than a 50-mesh strainer. Avoid overlapping of spray swath. Shut off boom while starting, turning or stopping to avoid over-application. Make applications in 10 to 50 gallons of water per acre at low pressure (20 to 50 psi).

Soil preparation: All existing vegetative matter should be thoroughly worked into the soil surface before planting. Large clods, trash or vegetative matter left on the soil surface will reduce effectiveness of the NORTRON SC treatment.

NEWLY PLANTED PERENNIAL RYEGRASS AND TALL FES-CUE GROWN FOR SOD: Apply NORTRON SC to newly planted areas when crop reaches the 2–3 leaf stage of growth. For best results, apply to moist soils.

Before weed emergence: Apply NORTRON SC at 21/4 to 3 pints per acre prior to weed emergence. Use the higher rate where rattail fescue, wild oats, and volunteer cereals are expected to be a problem.

After weed emergence: Apply NORTRON SC at earliest possible weed growth stage but no later than the 4-leaf stage. Rattail fescue, wild oats, and volunteer cereals which are more difficult to control, must be treated no later than the 2-leaf stage. Apply NORTRON SC at 21/4 to 3 pints per acre.

ESTABLISHED PERENNIAL RYEGRASS AND TALL FESCUE SOD: For preemergence and/or postemergence control of susceptible weeds, apply NORTRON SC prior to weed emergence or at the earliest possible weed growth stage, but not later than the 4-leaf stage. For best results, apply to moist soils. Apply NORTRON SC at 2½ to 3 pints per acre. Repeat applications at 4 to 8 week intervals may be needed to maintain weed control. DO NOT apply more than 1 gallon of NORTRON SC per acre per growing season.

USE PRECAUTIONS

(For use in California, Idaho, Oregon, and Washington only): NORTRON SC may cause stunting and stand reduction of newly seeded perennial ryegrass and tall fescue, if the crop is planted late in the fall and subjected to adverse climatic conditions or pesticides which restrict normal growth.

If vegetative matter or stover from previous crop was burned, sufficient rainfall or overhead irrigation must have occurred to dissipate the charcoal residue remaining after burning prior to NORTRON SC treatment. Failure to allow for dissipation of charcoal residue may result in reduced weed control.

IMPORTANT: READ BEFORE USE

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

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond AgrEvo USA Company's control, it is impossible for AgrEvo USA Company to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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