#### APR 22 1997

Mr. Kenneth W. Chisholm
AgrEvo USA Company Little Falls Centre One 2711 Centerville Road Wilmington, DE 19808

Dear Mr. Chisholm:

SUBJECT: Label Amendment to Add Nevada To Area of Use For

Grass Seed Crops and Commercial Sod Production

Nortron SC EPA Registration No. 45639-8 Your Application, Dated April 9, 1997

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

Delete the following statement from the "HAZARDS TO HUMANS AND DOMESTIC ANIMALS" section:

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

This statement is redundant and/or in conflict with the first aid statements in the "STATEMENT OF PRACTICAL TREATMENT". Note: An ocular statement of practical treatment is not required for products, such as this one, which have been placed in acute TOX Category IV, based on eye irritation potential; however, if you wish to add one, you may. If you choose to include an eye statement, it should be grouped with the other statements of practical treatment and should read as follows:

"IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists."

In the "POSTEMERGENCE APPLICATION" directions for use on 2. sugar beets on page 6, under "SPLIT (LOW RATE) APPLICATIONS", revise the 4th sentence to read as follows:

"See Dosage Tables 6 and 7 for equivalent band rates."

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SYMBOL ►	7505C	7127 101107400					
SURNAME >	S. Stanton		•			,	
DATE ►	Apr 22, 1997		_				
EPA Form 132	20-1 (12-70)				 O.F	FICIAL FILE CO	PY

A stamped copy of the labeling is enclosed for your records. Submit one copy of your final printed labeling before you release the product for shipment.

Sincerely yours,

Joanne I. Miller

Product Manager (23)

Herbicide Branch

Registration Division (7505C)

Enclosure



# Nortron°SC Specimen Label

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# Nortron<sup>®</sup> SC

**HERBICIDE** 

**EPA Registration Number 45639-8** 



# Nortron<sup>®</sup> 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, Nevada, Oregon, and Washington

#### ACTIVE INGREDIENT

Percent by Weight

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

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

58% 100%

TOTAL

\*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 vomiting 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 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 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 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 favor drift from target area. Do not contaminate water when disposing of equipment washwaters.

> ACCEPTED with COMMENTS In EPA Letter Dated

> > APR 22 1997

Under the Federal Insecticide. Fundicide, and Rodenticide Act as amended, for the posticide registered under EPA Reg. No.

#### **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 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, preemergence, 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 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 other 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
- Shoes plus socks

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#### **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

#### **Annual Broadleaf Weeds**

Black nightshade	Solanum nigrum
Common chickweed	Stellaria media
Common lambsquarters	Chenopodium album
Common purslane	Portulaca oleracea
Kochia	Kochia scoparia
Ladysthumb	Polygonum persicaria
Pennsylvania smartweed	. Polygonum pennsylvanicum
Redroot pigweed	Amaranthus retroflexus
Russian thistle	Salsola kali var. tenuifolia
Wild buckwheat	Polygonum convolvulus

#### **Annual Grass Weeds**

Annual bluegrass	Poa annua
Barnyardgrass*	Echinochloa crus-galli Phalaris canariensis
Canarygrass	Phalaris canariensis
Green foxtail	Setaria viridis
Large crabgrass	Digitaria sanguinalis
	Hordeum sp.
	Triticum sp.
	Avena fatua
	Setaria glauca
	A LOUIS NORTHWATER TO THE

\*Control of barnyardgrass may be reduced with the NORTRON SC + Pyramin tank mix because of the lower rate of NORTRON SC recommended.

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

NORTRON SC alone will also reduce competition from these HARD-TO-CONTROL weeds:

Annual Sowthistle	Sonchus oleraceus
Puncturevine	Tríbulus terrestris
Shepherdspurse	Capsella bursa-pastoris
	Cyperus rotundus

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 tank mixes 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 tank mixes 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 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 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 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 <sup>2</sup>			
Soil Texture	Broadcast	22" Row	28" Row	30" Row	
Coarse Textured Soils: Sands, loamy sands and sandy loams	2 <sup>1</sup> /4 to 3 <sup>3</sup> /4 Pints	¼ to 1¼ Pints	²/₂ 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	1¼ 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 1¾ Pints	

Use 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.

For 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 per Acre 7- inch Band Width Soil Texture 22" Row Broadcast Coarse Textured Soils: Sandy loams only 6 Pints 2 Pints **Medium Textured Soils:** 2 Pints 6 Pints Silt loams and clay loams Fine Textured Soils: 71/2 Pints

For 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 addi	tional broadleaf weeds:
Annual sowthistle	Sonchus oleraceus
Black mustard	Brassica nigra
Buffalobur	Solanum rostratum
Coast fiddleneck	Amsinckia intermedia
Common groundsel	Senecio vulgaris
Common ragweed	
Cutleaf nightshade	Solanum triflorum
Groundcherry	
Henbit	Lamium amplexicaule
Nettleleaf goosefoot	Chenopodium murale
Prickly lettuce	Lactuca serriola
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 3 for recommended rates.

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

-	NORTR Per	ON SC Acre	PYRAMIN DF Per Acre		
Soil Texture	Broadcast (For calibration purposes only)	10-inch Band Width <sup>1,2</sup> 30" Row	Broadcast (For calibration purposes only)	10-inch Band Width 30" Row	
Coarse Textured Soils: Sands, loamy sands and sandy loams	NOT RECOMMENDED				
Medium Textured Soils: Silt loams, clay loams which contain less than 3% organic matter	3 to 3¼ 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 5 1/4 s Pints	1 1/2 to 1 1/4 Pints	4½ Pounds	1½ Pounds	
For other band or row wic not apply this mixture bro <sup>2</sup> Use the higher rate of NO tured soils and/or where v	adcast. RTRON SC with	in each soil te	xture category or	the finer-tex	

PRECAUTIONS: Do not exceed 3/4 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 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 4. 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.

<sup>\*</sup>Pyramin\* is a registered trademark of BASF Aktiengesellschaft.

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DOSAGE TABLE 4 (Central and Eastern States Only):

	NORTRON SC/Acre			PYRAMIN FL/Acre		
Soil Texture	Broad- cast	7-inch Ba 22" Row	nd Width <sup>1</sup> 28" Row	Broad- cast	7-inch Ba 22" Row	nd Width <sup>1</sup> 28" Row
Coarse Textured Soils: Sandy loams only	3 Pints	1 Pint	¾ Pint	2¼ Qts	<sup>3</sup> / <sub>4</sub> Qts	⅓ Qt.
Medium Textured Soils: Silt and clay loams which contain less than 3% organic matter	4 Pints	1¼ Pints	1 Pint	3 Qts.	1 Qt.	<sup>3</sup> / <sub>4</sub> Qt.
Fine Textured Soils: Clay loams which contain more than 3% organic matter and clays	5 Pints	1½ Pints	1¼ Pints	3 Qts.	1 Qt.	3/4 Qt.

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**

, illiadi Digitaldi totto	
Annual sowthistle	
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
Ladysthumb	Polygonum persicaria
London rocket	Sisymbrium irio
Nettleleaf goosefoot	Chenopodium murale
Pennsylvania smartweed	Polygonum pennsylvanicum
Prostrate pigweed	
Redroot pigweed	Amaranthus retroflexus
Purslane	Portulaca oleraceus
Shepherdspurse	Capsella bursa-pastoris
Wild buckwheat	Polygonum convolvulus
Wild mustard	Brassica kaber
*Spray kochia while in the rosette stage	
	aa

Amound	Crace	Mar	24c

-Annual bluegrass	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Canarygrass	Phalaris canariensis
Additionally, a tank mix of NORTRO	ON SC plus BETAMIX

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 5 for broadcast rates. See Dosage Table 6 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 delayed, conventional applications as described below will be necessary.

## DOSAGE TABLE 5 DOSAGE CHART FOR BROADCAST APPLICATION

	Broadcast	
Sugar Beet Stage	NORTRON SC + BETAMIX	NORTRON SC + BETANEX
Cotyledon	0.25 + 1.50	0.25 ÷ 1.50
2 Leaf	0.33 + 2.00	0.33 + 2.00
4 Leaf	0.50 + 3.00	0.50 ± 3.00

DOSAGE TABLE 6	
BETAMIX OR BETANEX DOSAGE CHART FOR BAND AP	PLICATION

Broadcast	Band	BAND RATE ROW SPACING					
Equivalent	Width	22*	28"	30"			
1.5 pints/acre	.5." _	5.5 fl. oz.	4.3 fl. oz.	4.0 fl. oz.			
	7"	7.6 fl. oz.	6.0 fl. oz.	5.6 fl. oz.			
2.0 pints/acre	5*	7.3 fl. oz.	5.7 fl. oz.	5.3 fl. oz.			
	7*	10.2 fl. oz.	8.0 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	22*	28"	30"		
0.25 pints/acre	5"	0.9 fl. oz.	0.7 fl. oz.	0.7 fl. oz.		
	7"	1.3 fl. oz.	1.0 fl. oz.	0.9 fl. oz.		
0.33 pints/acre	. 5*	1.2 fl. oz.	0.9 fl. oz.	0.9 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 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.

Amaranthus retroflexus
Brassica kaber
Chenopodium murale
Sisymbrium irio
Chenopodium album

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

	up to the fitting of
Common chickweed	Stellaria media
Black nightshade	Solanum nigrum
Common ragweed	Ambrosia artemisiifolia
Shepherdspurse	Capsella bursa-pastoris
	Physalis lanceifolia
	Polygonum pennsylvanicum
	Polygonum persicaria
Prostrate pigweed	Amaranthus blitoides
Coast fiddleneck	Amaranthus blitoides Amsinckia intermedia

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

• • • • • • • • • • • • • • • • • • •	
Annual sowthistle	Sonchus oleraceus
Kochia*	
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***	
	and the contract of the contra

<sup>\*</sup>Spray kochia while in the rosette stage, less than 1" in diameter.

#### ... DOSAGE TABLE 8

Kate	DINOKIKO	Rate of BEIAMIX Per Acre							
Broadcas	roadcast Band <sup>2</sup> Row Spacing		ing	Broadcast	Band <sup>2</sup>	Row Spacing			
Rate	Width (in.)	22"	28*	30"	Rate	Width (in.)	22"	_28"	30*
21/4-3		3/4-1	,	1/2-2/3	41/2-6		11/2-2	1–11/2	11/5
** Pints	7	Pint	Pint	Pint	Pints	7	Pints	Pints	Pints

<sup>&#</sup>x27;Use 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.

Padroot pigus -d	-: A mai a ina == 4 ln = made a Al =
Redroot pigweed	Amarantnus retronexus
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	
Common ragweed	
Shepherdspurse	Capsella bursa-pastoris
Groundcherry	Physalis lanceifolia
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*	Kochia scoparia

<sup>\*</sup>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				
	- "	Row Spacing		Row Spaci		ing			
Broadcast Rate_	t Band <sup>2</sup> Width (in.)	22"	28"	30"	Broadcast Rate	Band <sup>2</sup> Width (in.)	22 <sup>#</sup>	_28"	30°
21/4-3 Pints	7	¾-1 Pint	1/2-3/4 Pint	1/2~2/3 Pint	4 <sup>1</sup> / <sub>2</sub> –6 Pints	7	11/2- 2 Pints	11/6- 11/2 Pints	1- 11/5 Pints

<sup>&</sup>lt;sup>1</sup>Use the higher rate on larger weeds and sugar beets.

<sup>\*\*</sup>Group II weed in California.

<sup>\*\*\*</sup>For best control, overhead moisture required

<sup>&</sup>lt;sup>2</sup>For other band or row widths, adjust rates in proportion to the area actually treated.

<sup>&</sup>lt;sup>2</sup>For other band or row widths, adjust rates in proportion to the area actually treated.

**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 tank mix 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 FOL-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 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
34	0	0
21	0	0
. 16	20	0
18	46	0
11	56	0
. 0	0	60
. 0	0	52
0	20	0
0	46	0
45	0	0
	21 16 18 11 0 0	21 0 16 20 18 46 11 56 0 0 0 0 0 20 0 46

#### **NORTRON SC Physical Data**

Density 1.14 g/cm³
Pounds/gallon 9.50 \_\_
Flashpoint Non-combustible

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

#### Gallons of NORTRON SC Per Ton of Dry Bulk Fertilizer

THE WALLS

Fertilizer Rate	Ir	npregnation Ra	nation Rate	
lb/acre	0.75 gal/acre	1 gal/acre	1.50 gal/acre	
200	2.80	3.75	5.63	
250	2.25	3.00	4.50	
300	1.88	2.50	3.75	
350	1.59	2.16	3.19	
400	1.41	1.88	2.81	
450	1.25	1.69	2.50	
500	1.13	1.50	2.25	
550	1.03	1.38	2.06	
600	0.94	1.25	1.88	
· · 650	0.87	1.13	1.75	
7.00	0.80	1.08	1.62	
	200 250 300 350 400 450 500 550 600 650	lb/acre         0.75 gal/acre           200         2.80           250         2.25           300         1.88           350         1.59           400         1.41           450         1.25           500         1.13           550         1.03           600         0.94           650         0.87	lb/acre         0.75 gal/acre         1 gal/acre           200         2.80         3.75           250         2.25         3.00           300         1.88         2.50           350         1.59         2.16           400         1.41         1.88           450         1.25         1.69           500         1.13         1.50           550         1.03         1.38           600         0.94         1.25           650         0.87         1.13	

#### 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

- 1. 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)
- Measuring cup, 8 fl. oz. (237 ml)
- \*Compex—Kalo Laboratories, Inc., Kansas City, MO
- \*\*E-Z Mix—United Agri-Products, Greeley, CÓ

#### **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	
	ml	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 fertilizer 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., ANTOR 4ES, 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, Nevada, 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	<i>Triticum</i> spp.
Seedling volunteer barley	Hordeum spp.
Soft chess	Bromus mollis
Seedling Wild oats	Avena fatua
Downy brome	Bromus tectorum
Common chickweed	Stellaria media
Common vetch	
· Common velvetgrass	Holcus lanatus
Mannagrass	
Barnyardgrass Canarygrass Green foxtail	Echinochloa crus-galli
Canarygrass	Phalaris canariensis
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 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 2¼ 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 21/4 to 33/4 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** 

Сгор	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

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 2¼ 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.

# ESTABLISHED STANDS OF PERENNIAL RYEGRASS AND TALL FESCUE

Before weed emergence: Apply NORTRON SC at 2½ 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 21/4 to 3 pints 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 33/4 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, Nevada, 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.

#### **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, Nevada, 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	Setaria viridis
Yellow foxtail	Setaria glauca
Yellow foxtail	Phalaris canariensis
Volunteer barley	Hordeum sp
Volunteer wheat	
Wild oats	Avena fatua
Rattail fescue	Festuca myuros
Common velvetgrass	Holcus lanatus
Mannagrass	Glyceria sp.
Downy brome	Bromus tectorum
Soft chess	Bromus mollis

(For use in California, Idaho, Nevada, 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 FESCUE 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 21/4 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, Nevada, 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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