NOA - 8 1880

L. Vernon White Griffin Corporation P.O. Box 1847 Valdosta, GA 31604-1847

Dear Mr. White:

Subject: LINEX 4L

EPA Reg. No. 1812-245 Re: Label Amendments

Your letter dated September 26, 1990

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. Please submit five (5) of your final printed labels incorporating these changes before distributing your product.

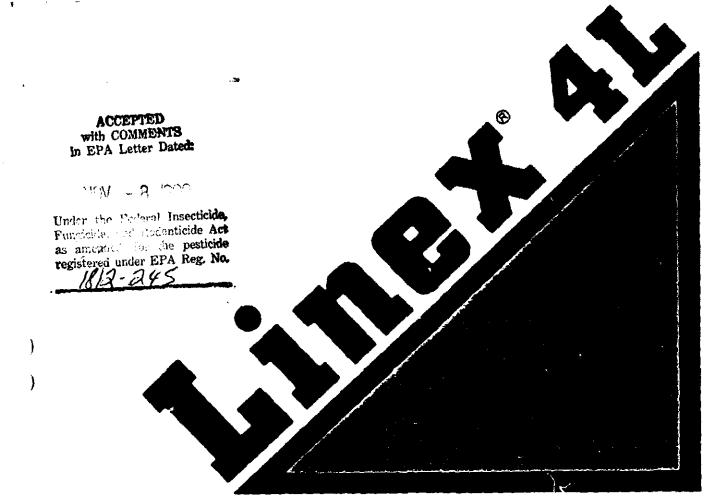
1. Please revise your "Environmental Hazards" statement to read "Do not contaminate water when disposing of equipment washwaters" as stated in our June 15, 1988 letter.

Sincerely,

Robert J. Taylor Product Manager (25) Fungicide-Herbicide Branch Registration Division (H7505C)

enclosure

	CONCURRENCES						
SYMBOL	H9505C						
SURNAME							
DATE	11/07/90					 	• • • • • • • • • • • • • • • • • • • •
EPA Form	13204 (12-70)		*U.1	5.GPO:1989-624-485	/10186	OFFICE	AL FILE COPY



## LINURON FLOWABLE WEED KILLER

This product contains 4 lbs. of Linuron per gallon.

# KEEP OUT OF REACH OF CHILDREN CAUTION STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Induce vomiting. IF ON SKIN: Remove by washing.

IF IN EYES: Wash with large amounts of water and yet medical attention.

SEE PRECAUTIONARY STATEMENTS





Griffin. The Hardworking Difference

#### GRIFFIN COPPORATION

VALDOSTA, GEORGIA 31601 NET CONTENTS 21/2 Gallons EPA Reg. No. 1812-245 EPA Est. No. 1812-GA-3

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Avoid breathing spray. Avoid contact with skin, eyes and clothing. In case of skin contact, remove with washing; for eyes, wash with copious amounts of water and get immediate medical attention. Do not apply this product in such a manner as to directly or through unift expose workers or other persons. The area being treated must be vacated by unprotected persons.

#### **ENVIRONMENTAL HAZARDS**

Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or diaposal of wastes

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inco nsistent with its labeling

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposed facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, burning. If burned, stay out of smoke,

PESTICIDE 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.

### RE-ENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated area for 24 hours following application unless protective othing is worn.

Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate apecific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure). When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: CAUTION. Area treated with LINURON or (date of application). Do not onlie without appropriate protective clothing for 24 hours. In case of accidental exposure see Statement of Practical Treatment.

### Required Clothing And Equipment For Mixing/Loading And Applying Linuron: One-piece overalls which have long sleeves and long pants constructed of finely woven fabric as specified in the USDA/EPA Guide for Commercial Applicators.

Wide-brimmed hats.

Chemical resistance gloves which are mid-forearm to elbow length.

le worn while applying linuron must be cleaned before re-using. Clothing which has been drenched or has otherwise absorbed concentrated pesticide must be disposed in a sanitary landfill, or incinerated, et by state and local authorities, by burning.

Instead of clothing and equipment specified above, the applicator can use an enclosed tractor cab which provides a filtered air supply (as described by Taschenberg and Bourke, 1975)

or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this pro-

ROTATIONAL CROP RESTRICTIONS

Do not rotate crops used for food or feed, which are not registered for use with linuron onto areas previously treated with this chemical.

#### **IMPORTANT**

Do not apply this product through any type of irrigation system

Injury to or loss of desirable trees or other plants may result from failure to observe the following:

Do not apply texcept as recommended for crop use), or drain or flush equipment on ur near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on home plantings of trees, shrubs or herbaceous plants, nor on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of dry powder or spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides, and seeds.

Thoroughly clean all traces of LINEX\* 4L from application equipment immediately after use. Flush tank, pump hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Do not contaminate water by cleaning of equipment or disposal of wastes. Do not re-use container.

#### **GENERAL INFORMATION**

LINEX\* 4L Weed killer is a flowable herbicide to be mixed in water and applied as a spray for selective control of weeds in certain crops and for non-selective weed control on non-cropland areas. It is non-corrosis to equipment, non-flammable and non-volatile.

LINEX' 4L may be applied to soil prior to emergence of weeds to control susceptible weed seedlings for an extended period of time; the degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions. Soils high in clay or organic matter require higher dosages than soil low in clay or organic matter to obtain equivalent herbicide performance. Moisture is required to activate the chemical; best results occur if rainfall for irrigated.

LINEX. 4L may also be used to control emerged weeds. Results vary with rate applied and environmental conditions; best results are obtained on succulent weeds growing under conditions of high temperatures of 70°F or higher. Addition of a surfactant to the spray (where recommended) increases contact effects of LINEX. 4L.

Since the effect of LINEX\* 4L varies with soils, uniformity of application, and environmental conditions, it is suggested that growers limit their first use to small areas. Observe all cautions a of all products used in mixtures.

#### DIRECTIONS

EINEX\* 4L Weed Killer should be used only in accordance with recommendations on this label

#### SELECTIVE USE IN CROPS

SELECTIVE USE IN CROS

PRF "FRGENCE USE (Germinating Weeds): LINEX" 4L, at recommended rates, control barnyardgrass (watergrass), canperweed, chickweed, crabgrass, fall panicum, Florida pusies, foxtail (including gially galinsoga, goosegrass, lambsquarters, mustard, nettleleaf goosefoot, pigweed, purslane, ragweed, smartweed and wild radish. Treatment usually provides purble control of annual morningglory, cocklebur, once it is a provided in the ligher soils and the nigher rates on heavier soils and on the more resistant seedling weeds. Sufficient moisture (%" to 1" on moiat soil; 1" to 2" on dry soils) in the form of rainfall or sprinkler irrigation is necessary after treatment to carry the chemical into the root zone of germinating weeds; best results are obtained when this occurs within two weeks after application.

A good seed bed must be prepared before application of LINEX" 4L as crop injury may result if application is made to ground which is cloddy or sompacted resulting in improperly planted seed. Plant seed to depth specified. Surface of the soil should not be cultivated or disturbed after application of LINEX" 4L and before emergence of the crop as weed control may be reduced and crop injury may result. However, if moisture is insufficient to activate the herbicide, a snallow cultivation forary hoe preferred) should be made after emergence of row crops while weeds are small enough to be controlled by mechanical means.

POSTEMERGENCE USE (Emerged Seedling Weed): LINEX" 4L at recommended rates, controls Amsinckia, annual morningglory, annual rysquast, barnyardgrass (cararygrass, carpetweed, purslane, ragweed, rattal lescue, sesbania, sicklepod, smartweed. Texas panicum, velvetleaf (buttonweed) and wild buckwheat. Best results are obtained ander conditions of high humidity and termeratures over 70°F. Control of emerged weeds under drought stress is usually impractical.

EQUIPMENT — SPRAY VOLUMES AND PRESSURES: Use a tractor mounted fixed hoors.

weeds under drought stress is usually impractical.

EQUIPMENT — SPRAY VOLUMES AND PRESSURES: Use a tractor-mounted fixed boom power sprayer properly calibrated to a constant speed and rate of delivery. Openings in screens should be equal to or larger than 50 mesh. Continuous agitation in the spray tank is required to keep the material in suspension. Agitate by mechanical or hydraulic means; if by-pass or return line is used, it should terminate at bottom of tank to minimize foaming. Avoid overlapping, and shut off spray booms while starting, turning, slowing or stopping, or finding to the crop may result.

For preemergence application, use 25 to 40 gals, per acre and spray pressure of 30 to 40 psi. For postemergence application, use sufficient volume (min. 25 gals, per acre) for thorough coverage of weed foliage; use spray pressure of 20 to 25 psi to keep spray drift to a minimum.

LINEX\* 4L is labeled for application using ground equipment only. Aerial applications are prohibited.

SPRAY PREPARATION: Mix proper amount of LINEX. 4L into necessary volume of water; for preemergence applications, non-pressure nitrogen solution mail be silbst titled for all or part of the water. Where use of surfactant is recommended dilute with 10 parts of water and add as last ingredient to nearly full tank.

USE RATES: All dosages of LINEX\* 4L (and tank mixtures) are expressed as broadcast rates; for band treatment, use proportionately less. For example, use 1) of the broadcast rate when treating a 14" band where row spacing is 42". Where range of dosages is given, use the lower rate on lighter soils flow in clay or organic matter) and the higher rate on heavier soils (high in clay or organic matter); for nostemergence application, use the lower rate on smaller weeds and the higher rate on larger weeds.

SOIL LIMITATIONS: Unless otherwise directed, do not use on sand, loamy sand, gravelly soils or exposed subsoils nor on soils containing less than 1% organic mutter us crop injury may result.

REPLANTING: If initial seeding fails to produce a stand, the same crop may be replanted in soil treated preemergence with LINEX. 4L for with recommended tank mixtures. Thoroughly rework soil before replanting; do not re-treat field with a second application as injury to the crop may result. Unless otherwise directed, do not replant treated areas to any other crop within 4 months effect last application as injury to subsequent crops may result. ATTACHMENT 1

SARROTS Presentations Application and Wissensiak Make a single application of 1 to 3 pts. per acre after planting but before carrots emerge: plant sized at least 1511 Jeep. Use the lower rate on lighter soils flow in clay or organic matter) and the higher rate on heavier soils (high in clay or organic matter). Subsequent postemergence application may be made provided the local does not exceed 4 pts. per acre per season.

Postemergence Application — U.S.: Apply 1% to 3 pts. per acre as a non-directed spray after carrots are at least 3" tall. Apply before annual grasses exceed 2" in height and befine "roadl af weeds exceed 6" in height. Repeat application may be made but do not exceed 4 pts. per acre as a non-directed spray after carrots are at least 3" tall. Apply before annual grasses exceed 2" in height and befine "roadl af weeds exceed 6" in height. Repeat application may be made but do not exceed 4 pts. per acre, do not exceed 40 pts. spray nozzle pressure as crop injury may result. —ATTACHMENT 2

LINEX". 4L may be applied following an application of Stoddard solvent provided treatments are at least 0 mets apart. Shorter time intervals between applications may result in injury to the crop. Do not apply LINEX". 4L as a tank mixture with Stoddard solvent, surfactants, nitrogen solution, other pesticides not when temperature exceeds 85°F as crop injury may result.

Note: Because carrot varieties vary in their resistance, determine tolerance to LINEX. 4L prior to adoption as a field practica to prevent possible crop injury, do not treat susceptible varieties which show an initial burning of foliage following postemergence reatment: ATTACHMENT 3.

SELECTY: Does transplant Application. Make a single application of 1 x to 3 pts, per acre. Apply as a non-directed spray after celery is transplanted and established, but before celery is 8" rail. Apply before annual grasses exceed 2" in height and before broadlest weeds exceed 6" in height in the Northeast, use only on celery grown on muck soils.

Do not exceed 40 psi spray nozzle pressure, and do not apply when remperature exceeds 35°F, nor as a tank mixture with surfactants, nitrogen solution, or other pesticides as injury to the crop inay result. Do not replicit to crops other than celety or carrots, within 4 months after application as injury to subsequent crops may result.

CORN (FIELD) — East of Rocky Mountains — Preemargance Application: Selectione of the following herbicide treatments for application as a rank mixture. Make a single application after planning but before crop emerges. Plant seed at least 1140 deep on flat or raised seedbells privide injury to the crop may result. Do not spray over top of emerged corn.

LINEX 4L + "Lasso " (Dilute Lasso with 2 parts of water and add as last ingredient to spray tank)

Product Per Acre Moderate Organic Matte Low Organic Matte (3% to 6%) (1% to 3%) LINEX! 4L (qual + LINEX! 4L (pts.) + "Lasso" (Qts.) SON TRULLING Lasso (Ots.) Sandy loam 1 1 4 to 2 - 1 to 1 1/2 2/3 to 1 1/4 + 3/4 to 1 1 2 3 to 2 1 2 + 1 1/2 to 2 1 to 12:3 + 1 to 11:2 Sit loam 1 1/4 to 2 + 1 1/2 to 2 2 10 3 - 2 10 2 1/2 Clay loam

Replanting: Corn or soybeans may be replanted within 4 months; after 4 months, any crop may be planted

	Product	Per Acre
	Low Organic Matter	Moderate Organic Matter
	11% to 3%)	(3% to 6%)
	LINEX! 4L (pts.) =	LINEX! 4L (pts.) +
Soil Texture	"Ramrod" (Lbs.)	"Ramrod" (Lbs.)
Sandy loam	2/3 to 1 1/3 + 1 to 2	1 1/3 to 2 + 2 to 3
Såt loam	1 to 1 2/3 + 1 1/2 to 2 1/2	1 2 3 to 2 1/2 + 2 1/2 to 4
Clay toarn	1 1/4 to 2 + 2 to 3	2 to 3 + 3 to 4 3/4

Replanting: Corn may be replanted within 4 months; after 4 months, any crop may be planted

LINEX<sup>5</sup> 4L - Atrazine

	Product	Per Acre
	Low Organic Matter (1% to 2%) LINEX* 4L [DIS.] +	Moderate Organic Matter (2% to 5%) UNEX <sup>1</sup> 4L (pts.) +
Soil Texture	Agazine 80% (Lbs.)	Atrazine 80% (Lbs.)
Sandy loam	2/3 to 1 + 1/2 to 2/3	1 to 2 + 2/3 to 1 1/4
Silt toarn	1 to 1 1/2 + 2/3 to 1	1 1 2 to 2 1/2 + 1 to 1 1/2
Clay loam	1 1/3 to 1 2/3 + 3/4 to 1	1 2/3 to 3 + 1 to 2

Replanting: Corn may be replanted within 6 months. After 6 months, any cross-nay be planted except do not follow treated corn with sugar beets, tobacco, or vegetables in relations.

do not follow treated corn may be replanted within 6 months. After 5 months, any cristingly be planted except do not follow treated corn with sugar beets, tobacco, or vegetables, including the program of the program

to instance. Do not feed in trash to livestock.

PARSINDS: Preemergence Application: Make a single application of 1 % to 3 pts. per acre. Apply after planting that before crop and Application: Make a single application as a broadcast spray after planting that the present the part of the part o

POTATO(2%) Premergence Application: Make a single application as a broadcast spray after planting port to be "dragged" and/or "hilled," apply after the final "dragging" or "hilling" operation. Apply before "grasses are 2" tell and before broadleaf weeds are 6" tall, preferably just before owner weed seedlings emerge. If emerged weeds are present, add 1 pt. surfactant for each 25 gals, spray mixture. In irrigated areas, best results are obtained when application is made to moist soil, followed within 2 weeks by 1" to 2" of sprinker irrigation for rainfall). On powder dry soils, irrigate prior to herbicide application and follow with sprinkler irrigation to activate the herbicide.

East of Rocky Mountains: Apply 1½ to 2½ pts. per acre on the lighter soils (sandy loams, silt loams; I to 2% organic matter) and 2½ to 4 pts. per acre on heavier soils (silts, clay loams; 2 to 5% organic matter); on soils over 5% organic matter, use 4 pts. per acre and apply to emerged weeds (before potatoes).

hain - Central Sands Area; Apply 1 pt. per acre on sands and 2 pts. per acre on loamy sands. wiHUM — Preemergence Application: Select one of the following herbicide treatments for application at ank mixture. Make a single application after planting but before crop emerges. Plant seed at least on flat or raised seedbeds only or injury to the crop may result. On not spray over top of emerged in'

**L'TACHMENT** ! (Ne.s" At - Propagos (Southwest)

	Product	Per Acre
	Low Organic Matter (1% to 2%)	Moderate Organic Matter (2% to 4%)
	LINEX' 4L (pts I ~	LINEX' 4L (pts.) +
Soil Texture	Propazine 80% (Lbs.)	Propazine 80% (Lbs.)
Sandy loam	5 \$ to 1 = 3/8 to 5 8	1 to 1 1 2 + 5 8 to 1
Silt loam Clav loam	1 to 1.1.2 + 5.8 to 7	1 to 2 + 5 8 to 1 1 t4

Replanting: Do not follow treated sorghum with any fall crop, nor with sugar beets, robacco, vegetables or potatoes in rotation. Prior to replanting, thorough seedbed preparation including fall or spring plowing is recommended.

LINEX: 4L + "Ramrod" (Great Plains)

	Product Per Acre		
	Low Organic Matter	Moderate Organic Matter	
	(1% to 3%)	(3% to 5%)	
	LINEX' 4L (pts ) +	LINEX* 4L (pts.) +	
Soil Texture	Ramrod 65 (Lbs.)	"Ramvod" 55 (Lbs.)	
Sandy loam	2 3 to 1 1 3 + 1 to 2	1 1 3 to 2 + 2 to 3	
Sitt loam	1 to 1 2 3 + 1 1 2 to 2 1 2	1 2 3 to 2 1 2 + 2 1 2 to 4	
Clay toam	1 1 4 10 2 + 2 10 3	2 to 3 = 3 to 4 3:4	

Replanting: Sorghum or field corn may be replanted within 4 months; after 4 months, any crop may be

Note: Do not graze or feed sorghum forage or silage from treated fields to dairy animals.

Directed Postemergence Application: Make a single application of LINEX. 4L as a directed spray, add 1 pt. surfactant for each 25 gal. spray mixture. If sprayer is equipped with skids, shoes or shields, apply 1 pt. per acre when sorghum is 12" tall firee standing plants) and weeds are up to 2" in height, use 1 to 2 pts per acre when sorghum is 15" tall and weeds are 2" to 4" in height. Apply only when there is sufficient differential between height of sorghum and weeds so that the directed spray thoroughly covers all weed tollage without contact of upper leaves or whorl of sorghum by spray or drift as such contact may cause crop injury

Note: Do not graze or feed plants to livestock within 3 months after postemergence application

SOYBEANS - Preemergence Application: Select one of the following herbicide treatments and make a single application after planning but before crop emerges. LiNEX\* 4L, alone or as a tank mixture with "Lasso," may be applied on flat or raised seed beds where seed are planted at least 1.%" deep. If applied on beds with seeds planted less than 1.%" deep crop injury may result. Do not spray over the top of emerged soybeans

LINEX\* 4L - If weeds have emerged, add 1 pt. for each 25 gals, spray mixture.

	LINEX* 4L Pts. Per Acre		
	Low Organic Matter	Moderate Organic Matter	
Soil Texture	11-2 to 2%)	(2 to 5%)	
Sandy loam	1 to 1 2.3	1 2/3 to 3	
Sit loam	1 1.4 to 2 1 3	Z 1/3 to 4	
Clay loam	1 1 3 to 2 2-3	2 2/3 to 5 (Over 5% organic matter, use 6 pts.)	

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Replanting: Soybeans or field corn may be replanted within 4 months; after 4 months, any crop may be

LINEX\* 4L following "Treflan"\*\* Preplant — Where "Treflan" has been used as a preplant incorporated treatment (according to directions on "Treflan" label), apply as a separate operation using ½ the rate recommended above for LINEX\* 4L alone. For rotation crops, follow instructions on "Treflan" label.

LINEX® 4L + "Amiben"\*\*\*

	Produc	Product Fer Agre		
-	Low Organic Metter (T/2 to 3%) LINEX! - 4L (pts.) +	Moderate Organic Masser (3% to 6%) LINEX <sup>9</sup> 4L (pts.1 +		
Soil Texture	"Amiben" (Qts.)	"Amiben" (Qts.)		
Sandy loam	2/3 to 1 1/2 ÷ 3	1 1/2 to 2 + 3		
Silt loam	1 to 1 2/3 + 3	1 2/3 to 2 1/4 + 4		
Clay loam	1 1.4 to 2 = 4	2103+5		

Replanting: Soybeans or field corn may be replanted within 4 months; after 4 months, any crop may be

LINEX® 4L + "Lasso"\*\*\* - East of Rocky Mountains (Dilute "Lasso" with 2 parts of water and add as last ingredient to spray tank).

	Product Per Acre		
	Low Organic Matter (1/2 to 3%)	Moderate Organic Matter (3% to 6%)	
Soil Texture	LINEX! 4L (pts.) +	LINEX* 4L (pts.) + "Lesso" (Qts.)	
Sandy loam	2/3 to 1 1/4 + 3/4 to 1	1 1/4 to 2 + 1 to 1 1/2	
Sift loam	1 to 1 2/3 ÷ 1 to 1 1/2	1 2/3 to 2 1/2 + 1 1/2 to 2	
Clay toam	1 1/4 to 2 + 1 1/2 to 2	2 to 3 + 2 to 2 1/2	

Replanting: Soybeans or field corn may be replanted within 4 months; after 4 months, any crop may be

LINEX® 4L + "Ramrod" (Seed Crop Only)

	Product Per Acre		
	Low Organic Matter	Moderate Organic Matter	
	(1% to 3%)	(3% to 6%)	
	LINEX: 4L (pts.) +	LINEX <sup>3</sup> 4L (pts.) +	
Soil Texture	"Ramrod" 65 (Lbs.)	"Pamrod" 65 (Lbs.)	
Sandy loam	2/3 to 1 1 3 + 1 to 2	1 7/3 to 2 + 2 to 3	
Silt loam	1 to 1 2.3 - 1 1 2 to 2 1/2	1 2/3 to 2 1/2 + 2 1/2 to 4	
Clay loam	1 1 4 to 2 + 2 to 3	2 to 3 + 3 to 4 3/4	

LINEX® 4L + "Dual"\*\*\*\*\*8E (Tank Mixture)

	Product Product	Per Acre
	½ to 3% Organic Matter	3 to 6% Organic Matter
	LINEX! 4L (pts.) +	LINEX* 4L fpts.1 +
Soi Texture	"Dual" BE (Pts.)	"Dua(" 8E (Pts.)
Sandy loam	2:3 to 1 1 4 + 1 1/4	1 1/4 to 2 + 1 1/2
Silt toarn	1 to 1 2 3 = 1 1 2	1 2/3 to 2 1/2 + 2
Clay loam	1 1 4 to 2 - 2	2 to 3 + 7 to 2 1 2

Note: Do not graze feed forage from treated areas to livestock.

Replanting: Soybeans or field corn may be replanted within 4 months; for rotation crops, follow instructions on "Dual" 8E label.

LINEX® 4L + "Prowl" Tank Mixture) or LINEX® 4L following "Prowl" Preplant.

Apply tank mixture as preemergence treatment only; for replant treatment, incorporate "Prowl" and then follow with LINEX? 4L as a separate operation.

	Produit Per Acre		
	1 to 3% Organic Matter	3 to 5% Organic Matter	
	LINEX' 4L (pts ) +	LINEX! 4L (pts.) +	
Soit Texture	Prowi Prs I	P.owt (Pts.)	
Sandy loam	2,3 to 1 1 4 - 1 to 1 1/2	1 1/4 to 2 + 1 1/2	
Sit loam	7 to 1 2 3 = 1 1/2 to 2	12/3 to 212 + 112 to 2	
Clay loam	1 1 4 .5 2 + 1 1 2 to 2	2 to 3 + 2 to 2 1 2	

Replanting: Soybeans or field corn may be replanted within 4 months; other crops may be planted the

LINEX\* 4L + "Surflan" 75W or "Surflan" AS\*\* (Tank Mixture)

	Product Per Acr			
Soil Texture	exture			
1 2 to 3%	LINEX' 4L	'Surflan'' 75W	"Surtlan " AS	
Organic Matter	:Perts)	(Lbs )	(Quarts)	
Sandy loam	2/3 ro 1 1 4	2/3 to 1	1, 2 to 3/4	
Sit loam	1 to 1 2 3	1 to 11:3	1.4 tg 1	
Clay loam	1 1 4 to 2	1 1 3 to 1 2 3	1 to 1/d	

Note: Do not use treated vines for feed or forage

Replanting: Soybeans may be replanted within 4 months; after 4 months any crop may be planted except do not plant root crops within 12 months.

SOYBEANS - Minimum or No-Tillage.

LINEX® 4L may be used with "Paraquat or Roundup "1, alik mixture con.b.natior s for preemergence and postemergence control of many broadleaf weeds and grasses and for top kill or suppression of some perennals where soybeans will be planted directly into a preformed led (stale seed bed), cover crop, or in previous crop residues such as como or small grain stubble. Adultion of "Surfian" 75W, "Surfian" AS, "Cual" 8E or "Lassa" to the tank mixture improves control of grasses and volunteer small grains.

Apply with ground equipment immediately before, during, or after planting 3.1 before crop emerges. Use 20 to 60 gallons of water per acre. Use the higher gallonage for dense stubble or vegetation. Maintain cons-

LINEX! 4L + Paraquat — Select the rate from the table for preemergenor clin of LINEX! 4L alone and thoroughly mix in spray tank first, then add Paraquat as directed under "Paraquat Combinations" below. LINEX\* 4L + Surfian 75W for ASI + Paraquat - Select the rate from the table for the preemergence use of LINEX\* 4L + "Surfian" 75W or "Surfian" AS tank mixture and thoroughly mix in sgray tank first: then add Paraquat as directed under Paraquat Combinations listed below. Do not use treated vi

LINEX\* 4L + "Dual" 8E + Paraquat or "Roundup" -- Thoroughly mix LINEX\* 4L and "Dual" 8E in spray tank first according to directions, then add Paraquat or "Roundup" as directed under Paraquat Combinations below. Do not graze or feed forage from treated areas to livestock.



	Product	Per Acre
Sod Testure	1: 2 to 3% Organic Matter LINEX* 4L (pts.7 + "Duat" 8E (Pts.1	3 to 6 to Organic Matter LINEX* 4L (pts.) + "Dual" 8E (Pts.)
Sandy loam	2-3 to 1 1/4 + 1 1-2	1 1 4 to 2 + 1 1/2
Silt loam	1 to 1 2/3 + 2	1 2 3 to 2 1/2 + 2
Clay loam	1 1/4 to 2 + 2 to 2 1 2	2 to 3 + 2 to 2 1/2

LINEX\* 4L + "Lasso" + Paraquat or "Roundup" - Thoroughly mix LINEX\* 4L and "Lasao" in spray tank first according to directions; then add Paraquat or "Roundup" as directed under Paraquat Combinations or "Roundup" Combinations below.

	Product Per Acre	
	1/2 to 3% Organic Matter	3 to 6% Organic Matter
•	LINEX* 4L (pts.) +	LINEX* 4L (pts.) +
Sol Texture	"Lasso" (Qts.)	"Lasso" (Qts.)
Sandy loam	2/3 to 1 1/4 + 2	1 1 '4 to 2 + 2 1/2
Sit loam	1 10 1 2/3 + 2 1/2	12/3 to 2 1/2 + 3
Clay loam	1 1/4 to 2 + 2 1/2	2 to 3 + 3

Paraquat Combinutions — Select and tank mix one of the above treatments; then add 1 to 2 pints Paraquat per acre. Use the higher rate for weeds 4" to 6" tall. As the last ingredient, add 1/2 pint Surfactant WK or "Ortho" X-77 Spreader per 100 gallons of spray mixture, maintain constant agitation.

"Roundup" Combinations — Select and tank mix one of the above treatments. As the last ingredient, add 1.1/2 quarts of "Roundup" per acre for control of emerged annual weeds or 2 to 4 quarts per acre for control of emerged perennial and annual weeds.

NOTE: Do not graze or feed forage from treated areas to livestock; do not use seed for food, or oil purposes

Replanting: Soybeans, sorghum, or field corn may be replanted within 4 months: after 4 months. any crop

Directed Postemergence Application: Apply LINEX® 4L alone or as a tank mixture with 2, 4-08, as a directed spray to cover weed foliage with minimum contact of the soybean plant. Do not spray higher than 3" on the soybean steam or crop injury may result. Do not spray over top of soybean plants. For broadcast application, use a single "lood-type spray nozzle ("K" series or equivalent) per middle mounted on an oising shoe or gauge wheel. For band treatment, use two nozzles par row mounted on oising shoes or gauge wheels, one on each side of row. To avoid spray drift, which may cause crop linjury, do not exceed nozzle pressure of "® na inor use nozzle tips smaller than 8002T-Jet (or equivalent) and do not spray under windy condition of the stresults, use a preemergence treatment (such as LINEX® 4LI) or cultivation to control early worth and to increase the differential between height of soybeans and weeds.

Note: Do not use on soils with less than 1/2% organic matter. Do not apply within 60 days of harvest. Do soybean forage or hay to livestock from fields treated postemergence. Harvested soybeans may for food, feed, or oil purposes.

Lin\_a 4L — Midsouth and Southeast. Apply when soybeans are at least 12" tall and when weeds do not exceed 4" in height. In Midsouth, application may be made when soybeans are at least 8" tall and weeds do not exceed 2" in height. Make a single application of 1 to 2 pts. per acre (½ to 1 pt. per acre on 8" soybeans); add 1 pt. surfactant for each 25 gals, spray mixture. Alternatively, if application is made to 12" soybeans, make a split application of 1 pt. per acre followed by a second application at same rate after one week or later. Do not apply more than 2 pts. per acre per season for postemergence treatment.

LINEX® 4L + 2, 4-DB — U.S.: Apply 1 pt. LINEX® 4L plus 1/5 lb. 2, 4-DB (1 pt. "Butyrac" 175 or 13 ft. oz. "Butyrac" 2001 per acre when soybeans are at least 8" tall and when weeds do not exceed 4" in height. Add 1 pt. surfactunt for each 25 gals, spray mixture. A second application may be made if needed, but do not is ake more than 2 applications per season.

Soybeans: Broadcast Application — LINEX® 4L and Sencor DF\*\*\*\*\* and Lasso\*

	Product Per Acre		
Soil Texture 1/2 to 3% Organic Matter	LINEX? 4L (Pints)	Sencor DF (Lbs.)	Lésso (Quarts)
Sandy loam	1/3 to 1/2	1/6 to 1 4	3/4 to 1
Loam Silt, toam Silt Sandy clay, Sandy clay toam	1/2 to 3/4	1/4 to 1/3	1 to 1-1/2
Saty clay Saty clay 'Clay. Sam	3/4 to 1-1/2	1/3 to 1/2	1-1/4 to 2

#### t Broadcast Application - LINEX\* 4L and Sencor DF\*\*\*\*\*\* and D all 8E\*\*\*\*\*

Soil Texture 1/2 to 3% Organic Matter	Product Per Acra		
	LINEX" 4L (Pints)	Sencor OF {Lbs.}	Cual 8E (Pints)
Sandy loam	1.3 to 1.2	1/6 to 1/4	1 to 1-1/4
Loam, Silt Loam, Silt Sandy clay, Sandy clay, Ioam	1. 2 to 3/4	1/4 to 1/3	1/1/4 to 1/1/2
Sifty clay Sifty clay Loam, clay Clay loam	3/4 to 1 1/2	1/3 to 1/2	1 1/2 to 2

5 of 6 WHEAT (WINTER) (Orill-Planted) — Idaho, Oregon, Washington: Plant seed at least 1" deep when seed is planted during abnormally dry weather, treat after soil has been settled by rainfall or irrigation. Apply as a broadcast spray prior to emergence of wheat or to semi-dormant wheat plants. Application to actively growing plants may result in temporary yellowing (chlorosis) of wheat.

growing plants may result in temporary yellowing (chlorosis) of wheat.

Crop injury may result where severe winter stress, disease or insect damage follows application, and also from failure to observe the following: Do not use on send or loamy sand soils, nor on gravelly or sandy loams low in organic matter (less than 1% deep; do not treat wheat planter less than 1% deep; do not treat wheat planter climatic conditions have caused "heaving" of plants; do not treat wheat plants lecking in vigor due to poor emergence, insect damage, disease, high alkianity, or other causes; do not sply after wheat has reached the "boot" state of maturity not when maximum daily temperature exceeds 60°F; do not use LINEX\* 4L in combination with other pesticides (except as noted), surfactants, or nitrogen solution after wheat has emerged.

Do not graze or feed immature plants to livestock. Do not replant treated areas to eny rotation copy within 6 months after last application as injury to subsequent crops may result.

West of Cascade Range: Make a single application of LINEX\* 4L at 2 to 3 % pts. per acre as soon as possible after planting. If wheat and weeds have emerged, apply before weeds are 3" to 4" talt.

East of Cascade Range: Make a single application of LINEX® 4L alone or, where recommended below, as a tank mixture with bromoxynii. If fall-planted wheat fails to grow due to winter kill or adverse growing conditions after fall treatment, allow 4 months before planting spring wheat. Do not retreat field with a second application during the same crop year as injury to the crop may result.

#### Where Average Annual Rainfall Exceeds 15 Inches:

Fall Treatment: For early fall-planted wheat (seeded before September 10), apply 1 to 1 ½ pts. LINEX<sup>‡</sup> 4L per acre either before or after wheat has emerged but before weeds are 2" tail. Treatment after October 1 generally gives best results. Do not apply after soil freezes in the fall.

Spring Treatment: Apply 1 to 1 1/4 pts. LINEX<sup>®</sup> 4L per acre as soon as wheat starts to grow in the spring. Application after weeds have reached a height of 2" may give poor results.

#### Where Average Annual Rainfall is 10 to 16 inches:

Fall or Winter Treatment: After wheat is planted in the fall, apply 1 to 1 ½ pts. LINEX\* 4L per acre when sufficient moisture is available to germinate wheat seed. Apply either before or after wheat has emerged, but before weeds are 2" tall and before the soil freezes. Application later than March 1 may give poor results.

#### Where Average Rainfall is 10 to 20 Inches:

Fall or Spring Treatment: Apply 1/2 pt. LINEX<sup>9</sup> 4L plus 1/4 lb. bromoxynil per acre as a tank mixture, either in the fall after wheat has emerged but before soil freezes or in the spring as soon as soil thaws: apply before weeds are 2" tall or across.

#### NON-CROP WEED CONTROL

For short-term control of annual weeds on non-cropland areas such as roadsides and fence rows — apply 2 to 6 pts. LINEX® 4L per acre in 40 to 100 gals, of water. For best results, apply shortly before weed growth begins or at early seedling stage of growth. For control of established annual weeds, add surfactant at rate of 2 pts, per 100 gals, of spray mixture and apply as a thorough coverage spray during periods when daily temperatures exceed 70°F, and before weed growth exceeds 8" in height.

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

#### WARRANTY STATEMENT

GRIFFIN warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of GRIFFIN. In no case shall GRIFFIN be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. GRIFFIN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR FARTICULAR PURF. SE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

- \*Registered trademark of Monsanto Company, "Lasso" contains 4 lbs. alachlor.
- \*\*Registered trademark of Elanco Products Company.
- \*\*\*Registered trademarks of Union Carbide Company "Amiben" contains 2 lbs. chloramben
- \*\*\*\*Registered trademark of Monsanto Company.
- \*\*\*\*\*Registered trademark of Ciba-geigy Corp.
- \*\*\*\*\*\*Registered trademark of American Cyanamid Co.
- \*\*\*\*\*\*\*Registered trademark of Mobay Chemical Corp.

GCN 040788 CPC 001029



#### LINEX 4L EPA Reg. No. 1812-245

#### ATTACHMENT 1

CARROTS - Florida, Michigan, Ohio and Wisconsin - Preemergence Application:

#### ATTACHMENT 2

(West of Rocky Mountains, do not exceed 3 pints LINEX 4L per acre.)

#### ATTACHMENT 3

CELERY - East of Rocky Mountains - Post-transplant Application:

#### ATTACHMENT 4

HYBRID POPLAR - Midwest: Apply 2 to 4 pints LINEX 4L per acre before bud break in the spring. For application after bud break, apply 2 to 4 pints LINEX 4L per acre as a directed spray. Spray should be directed to weed growth and to avoid contact with the poplar plant. Do not spray over the top of the poplar as injury to the plant will result.

Use the lower rate on light soils and higher rate on heavier soils. For best results on emerged weeds, treat at the seedling stage.

More than one treatment may be made but no more than 8 pints LINEX 4L per acre should be applied per year.

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#### ATTACHMENT 5

Mortheast: For improved control of annual grasses apply:

LINEX 4L + Dual 8E

	1 to 3% Organic Matter	3 to 5% Organic Matter
Soil Texture	LINEX 4L (pts) + Dual 8E (pts)	LINEX 4L (pts) + Dual 8E (pts)
Coarse: Sandy Loam	1 to 1½ + 1-1½	1½ to 2 + 2
Medium: Loam, Silt Loam, Silt, Sandy clay, Sandy clay loam	14 to 2 + 2	2 50 2½ + 2½ to 3