

P.M.25

1812-245

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ACCEPTED

FEB 19 1991

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 1812-245

LINEX[®] 4L

LINURON FLOWABLE WEED KILLER

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ACTIVE INGREDIENT:

Linuron [3-(3, 4-dichlorophenyl)-1-methoxy-1-methylurea] 40.6%

INERT INGREDIENTS: 59.4%

TOTAL 100.0%

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 get medical attention.

SEE PRECAUTIONARY STATEMENTS

Griffin

Griffin. The Hardworking Difference™

GRIFFIN CORPORATION

VALDOSTA, GEORGIA 31601

EPA Reg. No. 1812-245

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 drift 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 when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent 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 disposal 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, by burning. If burned, stay out of smoke.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinseate 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 clothing 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 specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure). When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: CAUTION. Area treated with LINURON on (date of application). Do not enter 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.

Any article 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, or if allowed 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).

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.

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 product.

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 (except as recommended for crop use), or drain or flush equipment on or near desirable trees or other plants, or in areas where the roots may be exposed, or in areas 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, driveways, tennis courts, 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 seed.

Thoroughly clean all traces of LINEX 4L from application equipment immediately after use. Flush tank, pump, hose, 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 contents.

GENERAL INFORMATION

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

LINEX 4L may be applied to soil prior to emergence of weeds to control susceptible weed seedlings. The length of 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 rates 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 (or irrigation) occurs within 2 weeks of application. In the Columbia River Basin, use LINEX 4L only if crop is sprinkler 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 humidity and 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 and limitations on labeling of all products used in mixtures.

DIRECTIONS

LINEX 4L Weed Killer should be used only in accordance with recommendations on this label.

SELECTIVE USE IN CROPS

PREEMERGENCE USE (Germinating Weeds): LINEX 4L, at recommended rates, control barnyardgrass (watergrass), canarygrass, carpetweed, chickweed, crabgrass, fall panicum, Florida pusley, foxtail (including giant foxtail), galinsoga, goosegrass, lambsquarters, mustard, nettleleaf goosefoot, pigweed, purslane, ragweed, smartweed and wild radish. Treatment usually provides partial control of annual morningglory, cocklebur, prickly sida (tearweed), sicklepod and velvetleaf (buttonweed); it will not control established perennials such as Bermudagrass, Canada thistle, field bindweed, Johnsongrass and purple nutsedge. The lower dosages rates are effective on the lighter soils and the higher rates on heavier soils and on the more resistant seedling weeds. Sufficient moisture ($\frac{1}{2}$ " to 1" on moist soils; 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 compacted 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 tillage operation (rotary 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 Weeds): LINEX 4L at recommended rates, controls Amaranth, annual morningglory, annual ryegrass, barnyardgrass (watergrass), canarygrass, carpetweed, cocklebur, crabgrass, dog fennel, fall panicum, Florida pusley, foxtail (including giant foxtail), goosegrass, groundsel, knawel, lambsquarters, mustard, nettleleaf goosefoot, pigweed, prickly sida (tearweed), purslane, ragweed, rattail fescue, sesbania, sicklepod, smartweed, Texas panicum, velvetleaf (buttonweed) and wild buckwheat. Best results are obtained under conditions of high humidity and temperatures over 70°F. Control of emerged 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 injury 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 droplets 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 may be substituted 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 $\frac{1}{2}$ of the broadcast rate when treating a 14" band where row spacing is 42". Where spraying or dosages is given, use the lower rate on lighter soils (low in clay or organic matter) and the higher rate on heavier soils (high in clay or organic matter); for postemergence 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 matter as crop injury may result.

REPLANTING: If initial seedling fails to produce a stand, the same crop may be replanted in soil treated preemergence with LINEX 4L (or 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 after last application as injury to subsequent crops may result.

CARROTS — Florida, Michigan, Ohio and Wisconsin — Preemergence Application: Make a single application of 1 to 3 pts. per acre after planting but before carrots emerge; plant seed at least $\frac{1}{2}$ " deep. Use the lower rate on lighter soils (low 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 total does not exceed 4 pts. per acre per season.

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Postemergence Application — U.S.: Apply 1½ 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 before broadleaf weeds exceed 6" in height. Repeat application may be made but do not exceed 4 pts. per acre; do not exceed 40 psi spray nozzle pressure as crop injury may result. (West of Rocky Mountains, do not exceed 3 pints LINEX 4L per acre).

LINEX 4L may be applied following an application of Stoddard solvent provided treatments are at least one day apart. Stoddard solvent may be applied following an application of LINEX 4L provided treatments are at least 2 weeks 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, nor 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 practice to prevent possible crop injury; do not treat susceptible varieties which show an initial burning of foliage following postemergence treatment.

CELERY — East of Rocky Mountains — Post-transplant Application: Make a single application of 1½ to 3 pts. per acre. Apply as a non-directed spray after celery is transplanted and established, but before celery is 8" tall. Apply before annual grasses exceed 2" in height and before broadleaf 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 temperature exceeds 85°F. nor as a tank mixture with surfactants, nitrogen solution, or other pesticides as injury to the crop may result. Do not replant to crops other than celery or carrots within 4 months after application as injury to subsequent crops may result.

CORN (FIELD) — East of Rocky Mountains — Preemergence Application: Select one of the following herbicide treatments for application as a tank mixture. Make a single application after planting but before crop emerges. Plant seed at least 1½" deep on flat or raised seedbeds only or 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	
	Low Organic Matter (1% to 3%)	Moderate Organic Matter (3% to 6%)
	LINEX 4L (pts.) + Lasso (Qts.)	LINEX 4L (pts.) + Lasso (Qts.)
Soil Texture		
Sandy loam	2/3 to 1 1/4 + 3/4 to 1	1/4 to 2 + 1 to 1 1/2
Silt loam	1 to 1 1/4 + 1 1/2 to 2	1 1/2 to 2 + 1 1/2 to 2
Clay loam	1 1/4 to 2 + 2 to 2 1/2	2 + 2 to 2 1/2

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

LINEX 4L + Ramrod

	Product Per Acre	
	Low Organic Matter (1% to 3%)	Moderate Organic Matter (3% to 6%)
	LINEX 4L (pts.) + Ramrod 85 (Lbs.)	LINEX 4L (pts.) + Ramrod 85 (Lbs.)
Soil Texture		
Sandy loam	2/3 to 1 1/3 + 1 to 2	1 1/3 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

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

LINEX 4L + Atrazine

	Product Per Acre	
	Low Organic Matter (1% to 2%)	Moderate Organic Matter (2% to 5%)
	LINEX 4L (pts.) + Atrazine 80% (Lbs.)	LINEX 4L (pts.) + Atrazine 80% (Lbs.)
Soil Texture		
Sandy loam	2/3 to 1 + 1/2 to 2 1/3	1 to 2 + 2/3 to 1 1/4
Silt loam	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 crop may be planted except do not follow treated corn with sugar beets, tobacco, or vegetables in rotation.

CORN (FIELD AND SWEET) — Directed Postemergence Application: Make a single application as a directed spray after corn is at least 15" high (measured to the highest leaf surface on free standing plants). Do not spray over top of corn. Apply only when there is sufficient differential between height of corn and weeds so that the directed spray thoroughly covers all weed foliage without contact of upper leaves or whorl of corn by spray or drift, as such contact may cause crop injury. Early cultivation (rotary hoe or other suitable equipment) will aid in achieving proper differential between height of corn and weeds.

1½ to 3 pts. per acre; add 1 pt. surfactant for each 25 gals. spray mixture. For field corn, non-pressure solution may be substituted for all or part of the water. Use the lower rate on lighter soils (low y or organic matter) and when weeds do not exceed 2" in height; use the higher rate on heavier soils (clay or organic matter) for weeds up to 5" in height.

COTTON — East of Rocky Mountains — Directed Postemergence Application: Apply as a directed spray; adjust nozzles to minimize contact of cotton leaves with spray or drift or crop injury may result. Do not spray over top of cotton.

Apply 1 to 1½ pts. per acre when cotton is at least 15" tall and emerged weeds do not exceed 2" in height; add 1 pt. surfactant for each 25 gals. spray mixture. If needed, a second application of same rate may be made one week or later after initial treatment. Alternatively, after cotton is 20" tall, make a single application of 2 to 3 pts. per acre following last cultivation; if emerged weeds are present, add surfactant as directed above.

Note: Do not use on Pima varieties of cotton. Do not graze treated fields or feed forage from treated areas to livestock. Do not feed gin trash to livestock.

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.

PARSNIPS: Preemergence Application: Make a single application of 1½ to 3 pts. per acre. Apply after planting but before crop emerges. Plant seed at least ½" deep.

POTATOES: Preemergence Application: Make a single application as a broadcast spray after planting but before crop emerges. Plant seed at least 2" deep. Do not spray over top of emerged potatoes. If beds are to be "dragged" and/or "hilled," apply after the final "dragging" or "hilling" operation. Apply before grasses are 2" tall and before broadleaf weeds are 6" tall, preferably just before or when 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 sprinkler irrigation (or 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; 1 to 2% organic matter) and 2½ to 4 pts. per acre on heavier soils (silt, 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 emerge).

Wisconsin — Central Sands Area: Apply 1 pt. per acre on sands and 2 pts. per acre on loamy sands.

Northeast: For improved control of annual grasses apply:

LINEX 4L + Dual 8E

	Product Per Acre	
	1 to 3% Organic Matter LINEX 4L (Pints) + Dual 8E (Pints)	3 to 5% Organic Matter LINEX 4L (Pints) + Dual 8E (Pints)
Coarse Sandy Loam	1 to 1½ + 1 to 1½	1½ to 2 + 2
Medium Loam, Silt Loam, Silt, Sandy Clay, Sandy Clay Loam	1½ to 2 + 2	2 to 2½ + 2½ to 3

SORGHUM — Preemergence Application: Select one of the following herbicide treatments for application as a tank mixture. Make a single application after planting but before crop emerges. Plant seed at least 1" deep on flat or raised seedbeds only or injury to the crop may result. Do not spray over top of emerged sorghum.

LINEX 4L + Propazine (Southwest)

	Product Per Acre	
	Low Organic Matter (1% to 2%)	Moderate Organic Matter (2% to 4%)
	LINEX 4L (pts.) + Propazine 80% (Lbs.)	LINEX 4L (pts.) + Propazine 80% (Lbs.)
Soil Texture		
Sandy loam	5/8 to 1 + 3/8 to 5/8	1 to 1 1/2 + 5/8 to 1
Silt loam	1 to 1 1/2 + 5/8 to 1	1 to 2 + 5/8 to 1 1/4
Clay loam		

Replanting: Do not follow treated sorghum with any fall crop, nor with sugar beets, tobacco, 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 (1% to 3%)	Moderate Organic Matter (3% to 6%)
	LINEX 4L (pts.) + Ramrod 85 (Lbs.)	LINEX 4L (pts.) + Ramrod 85 (Lbs.)
Soil Texture		
Sandy loam	2/3 to 1 1/3 + 1 to 2	1 1/3 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

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

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 (free 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 foliage 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 planting 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 1½" deep. If applied on beds with seeds planted less than 1½" 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 (1/2 to 2%)	Moderate Organic Matter (2 to 5%)
Soil Texture		
Sandy loam	1 to 1 2/3	1 2/3 to 3
Silt loam	1 1/4 to 2 1/3	2 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.)

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

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

LINEX 4L + Amiben®

	Product Per Acre	
	Low Organic Matter (1/2 to 3%)	Moderate Organic Matter (3% to 6%)
	LINEX 4L (pts.) + Amiben (Qts.)	LINEX 4L (pts.) + Amiben (Qts.)
Soil Texture		
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	2 to 3 + 5

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

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%)
	LINEX 4L (pts.) + Lasso (Qts.)	LINEX 4L (pts.) + Lasso (Qts.)
Soil Texture		
Sandy loam	2/3 to 1 1/4 + 3/4 to 1	1 1/4 to 2 + 1 to 1 1/2
Silt loam	1 to 1 2/3 + 1 to 1 1/2	1 2/3 to 2 1/2 + 1 1/2 to 3
Clay loam	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 planted.

LINEX 4L + Ramrod (Seed Crop Only)

	Product Per Acre	
	Low Organic Matter (1% to 3%)	Moderate Organic Matter (3% to 6%)
	LINEX 4L (pts.) + Ramrod 85 (Lbs.)	LINEX 4L (pts.) + Ramrod 85 (Lbs.)
Soil Texture		
Sandy loam	2/3 to 1 1/3 + 1 to 2	1 1/3 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

Soybeans:

LINEX 4L + Dual 8E (Tank Mixture)

	Product Per Acre	
	1 to 3% Organic Matter LINEX 4L (pts.) + Dual 8E (Pts.)	3 to 6% Organic Matter LINEX 4L (pts.) + Dual 8E (Pts.)
Soil Texture		
Sandy loam	2/3 to 1 1/4 + 1 1/4	1 1/4 to 2 + 1 1/2
Silt loam	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 + 2 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.

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Soil Texture	Product Per Acre	
	1 to 3% Organic Matter LINEX 4L (pts.) + Prowl (Pts.)	3 to 6% Organic Matter LINEX 4L (pts.) + Prowl (Pts.)
Sandy loam	2/3 to 1 1/4 + 1 to 1 1/2	1 1/4 to 2 + 1 1/2
Silt loam	1 to 1 2/3 + 1 1/2 to 2	1 2/3 to 2 1/2 + 1 1/2 to 2
Clay loam	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; other crops may be planted the following year.

LINEX 4L + Surflan® 75W or Surflan® AS (Tank Mixture)

Soil Texture	Product Per Acre		
	LINEX 4L (Pints)	Surflan 75W (Lbs.)	Surflan AS (Quarts)
Sandy loam	2/3 to 1 1/4	2/3 to 1	1/2 to 3/4
Silt loam	1 to 1 2/3	1 to 1 1/3	1/4 to 1
Clay loam	1 1/4 to 2	1 1/3 to 1 2/3	1 to 1 1/4

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 in tank mixture combinations for preemergence and postemergence control of many broadleaf weeds and grasses and for top kill or suppression of some perennials where soybeans will be planted directly in a preformed bed (stale seed bed), cover crop, or in previous crop residues such as corn or small grain stubble. Addition of Surflan 75W, Surflan AS, Dual SE or Lasso to the tank mixture improves control of grasses and volunteer small grains.

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

LINEX 4L + Paraquat — Select the rate from the table for preemergence use of LINEX 4L alone and thoroughly mix in spray tank first, then add Paraquat as directed under Paraquat Combinations below.

LINEX 4L + Surflan 75W (or AS) + Paraquat — Select the rate from the table for the preemergence use of LINEX 4L + Surflan 75W or Surflan AS tank mixture and thoroughly mix in spray tank first; then add Paraquat as directed under Paraquat Combinations listed below. Do not use treated vines for feed or forage.

LINEX 4L + Dual SE + Paraquat or Roundup — Thoroughly mix LINEX 4L and Dual SE 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.

Soil Texture	Product Per Acre	
	1/2 to 3% Organic Matter LINEX 4L (pts.) + Dual SE (Pts.)	3 to 6% Organic Matter LINEX 4L (pts.) + Dual SE (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 Lasso in spray tank first according to directions; then add Paraquat or Roundup as directed under Paraquat Combinations or Roundup Combinations below.

Soil Texture	Product Per Acre	
	1/2 to 3% Organic Matter LINEX 4L (pts.) + Lasso (Qts.)	3 to 6% Organic Matter LINEX 4L (pts.) + Lasso (Qts.)
Sandy loam	2/3 to 1 1/4 + 2	1 1/4 to 2 + 2 1/2
Silt loam	1 to 1 2/3 + 2 1/2	1 2/3 to 2 1/2 + 3
Clay loam	1 1/4 to 2 + 2 1/2	2 to 3 + 3

Paraquat Combinations — 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 Spreaders 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 may be planted.

Directed Postemergence Application: Apply LINEX 4L alone or as a tank mixture with 2, 4-DB, as a directed spray to cover weed foliage with minimum contact of the soybean plant. Do not spray higher than 3" on the soybean stem or crop injury may result. Do not spray over top of soybean plants. For broadcast application, use a single flood-type spray nozzle ("K" series or equivalent) per middle mounted on an oiling shoe or gauge wheel. For band treatment, use two nozzles per row mounted on oiling shoes or gauge wheels, one on each side of row. To avoid spray drift, which may cause crop injury, do not exceed nozzle pressure of 25 psi nor use nozzle tip smaller than 8002T-Jet (or equivalent) and do not spray under windy conditions. For best results, use a pre-emergence treatment (such as LINEX 4L) or cultivation to control early weed growth and to increase the differential between height of soybeans and weeds.

Note: Do not use on soils with less than 1% organic matter. Do not apply within 80 days of harvest. Do not feed soybean forage or hay to livestock from fields treated postemergence. Harvested soybeans may be used for food, feed, or oil purposes.

LINEX 4L — Midwest and Southeast. Apply when soybeans are at least 12" tall and when weeds do not exceed 4" in height. In Midwest, 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 (1/2 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 fl. oz. Butyrac 200) per acre when soybeans are at least 8" tall and when weeds do not exceed 4" in height. Add 1 pt. surfactant for each 25 gals. spray mixture. A second application may be made if needed, but do not make more than 2 applications per season.

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

Soil Texture	Product Per Acre		
	LINEX 4L (Pints)	Sencor DF (Lbs.)	Lasso (Quarts)
Sandy loam	2/3 to 1 1/2	1/6 to 1/4	3/4 to 1
Silt loam	1 to 1 1/2	1/4 to 1/3	1 to 1 1/2
Sandy clay loam	1 1/2 to 2	1/3 to 1/2	1 1/4 to 2

Soybeans: Broadcast Application — LINEX 4L and Sencor DF and Dual SE

Soil Texture	Product Per Acre		
	LINEX 4L (Pints)	Sencor DF (Lbs.)	Dual SE (Pints)
Sandy loam	1/3 to 1/2	1/6 to 1/4	1 to 1 1/4
Silt loam	1/2 to 3/4	1/4 to 1/3	1 1/4 to 1 1/2
Sandy clay loam	3/4 to 1 1/2	1/3 to 1/2	1 1/2 to 2

WHEAT (WINTER) (Drill-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.

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 sand or loamy sand soils, nor on gravelly or sandy loams low in organic matter (less than 1%), nor on thinly covered or exposed sub-soil areas (clay knobs); do not treat wheat planted less than 1" deep; do not treat wheat where winter climatic conditions have caused "heaving" of plants; do not treat wheat plants lacking in vigor due to poor emergence, insect damage, disease, high alkalinity, or other causes; do not apply 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 any rotation crop 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" tall.

East of Cascade Range: Make a single application of LINEX 4L alone or, where recommended below, as a tank mixture with bromoxynil. 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 second application during the same crop year as injury to the crop may result.

Where Average Annual Rainfall Exceeds 16 Inches:

Fall Treatment: For early fall-planted wheat (seeded before September 10), apply 1 to 1 1/2 pts. LINEX 4L per acre either before or after wheat has emerged but before weeds are 2" tall. 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 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 1/2 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 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.

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