

PM 25 51036-78

File 10/17



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DEC 22 1993

Morris Gaskins
MICRO-FLO CO.
P. O. Box 5948
Lakeland, FL 33807

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 06/03/93 in Response to PR Notice 93-7
EPA Reg. No. 51036-78
LINURON 4L WEED KILLER

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

Each notification must include the following information:

1. Registrant 's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
 Compliance Division, (7203)
 Worker Protection Notification
 Office of Compliance Monitoring
 U.S. Environmental Protection Agency
 401 M Street SW
 Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling as amended

AND

- **WITHIN** one year from date of this acceptance.

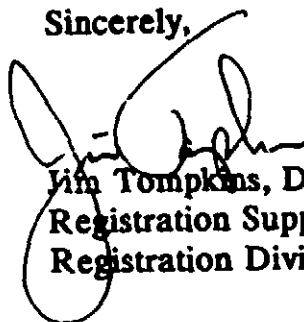
Submit the final printed labeling via the U.S. Postal Service to:

**Document Processing Desk (FIN-LABEL)
 Office of Pesticide Programs (7505C)
 U.S. Environmental Protection Agency
 401 M Street, SW
 Washington, D.C. 20460-0001**

Hand or courier deliveries of final labeling may be made to:

**Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202**

Sincerely,



**Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)**

Attachment

cc: Office of Compliance Monitoring

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Draft labeling for WPS language in response to PR 93-7

MICRO FLO
LINURON 4L

WEED KILLER

ACTIVE INGREDIENT:

Linuron (3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea)	40.6%
INERT INGREDIENTS	59.4%
TOTAL	100.0%

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 Side Panels For Additional Precautionary Statements

EPA Reg. No. 51036-78

EPA Est. No. 51036-GA-1

Manufactured By
 MICRO FLO COMPANY
 P.O. BOX 5948
 LAKELAND, FL 33807

ACCEPTED
 with COMMENTS
 In EPA Letter Dated

DEC 22 1993

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

51036-78

PRECAUTIONARY STATEMENTS

Hazards To Humans And 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.

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Applicators and other handlers must wear:

1. Coveralls over short-sleeved shirt and short pants
2. Waterproof gloves
3. Shoes plus socks
4. Chemical-resistant headgear for overhead exposure

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing
3. 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

NON-AQUATIC - Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of water. Keep out of lakes, streams or ponds. 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 disposal of wastes.

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.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

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.

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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 and restricted-entry intervals. 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.

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:

1. Coveralls over short-sleeved shirt and short pants
2. Waterproof gloves
3. Shoes plus socks
4. Chemical-resistant headgear for overhead exposure

CHEMIGATION PROHIBITION

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

PROHIBITION OF AERIAL APPLICATION

Do not apply with aerial equipment.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. PESTICIDE 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.

IMPORTANT

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 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 or 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 Linuron 4L from application equipment immediately after use. Flush tank, pump house, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

GENERAL INFORMATION

LINURON 4L 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-corrosive to equipment, non-flammable and non-volatile. LINURON 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 (or irrigation) occurs within 2 weeks of application. LINURON 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 degrees F., or higher. Addition of a surfactant to the spray (where recommended) increases contact effects of LINURON 4L. Since the effect of LINURON 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 uned in mixture.

DIRECTIONS

MICRO FLO LINURON 4L should be used only in accordance with recommendations on this label.

SELECTIVE USE IN CROPS

PRE-EMERGENCE USE (Germinating Weeds): Linuron 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 (teaweed), sicklepod and velvetleaf (buttonweed); it will not control established perennials such as Bermudagrass, Canada thistly, field bindweed Johnsongrass and purple nutsedge. The lower dosage rates are effective on the lighter soils and the higher rates on heavier soils and on the more resistant seedling weeds. Sufficient moisture (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 applications. A good seed bed must be prepared before application of Linuron 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 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 shallow cultivation (rotary hoe preferred) should be made after emergence of row crops while weeds are small enough to be controlled by mechanical means.

POST-EMERGENCE USE (Emerged Seedling Weed): LINURON 4L at recommended rates, controls Amsinckia, 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 (teaweed), 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 degrees F. Control of emerged weeds under drought stress is usually impractical.

EQUIPMENT - SPRAY VOLUMES AND PRESSURES: Use 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 a 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 pre-emergence application, use 25 to 40 gals. per acre and spray pressure of 30 to 40 psi. For post-emergence 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.

SPRAY PREPARATION: Mix proper amount of Linuron 4L into necessary volume of water; for pre-emergence 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 Linuron 4L (and tank mixtures) are expressed as broadcast rates; for band treatment, use proportionately less. For example, use 1/3 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 (low in clay or organic matter) and the higher rate on heavier soils (high in clay or organic matter); for post-emergence application, use the lower rate of smaller weeds and

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the higher rate of 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 seeding fails to produce a stand, the same crop may be replanted in soil treated preemergence with Linuron 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 - Pre-emergence Application - Michigan and Wisconsin: Make a single application of 1 to 3 pts. per acre after planting but before carrots emerge; plant seed at least 1/2" deep. Use the lower rate of 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. Do not apply within 14 days of harvest. **Post-Emergence Application - U.S.:** Apply 1 1/2 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. LINURON 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 Linuron 4L provided treatments are at least 2 weeks apart. Shorter time intervals between applications may result in injury to the crop. Do not apply Linuron 4L as a tank mixture with Stoddard solvent, surfactants, nitrogen solution, other pesticides, nor when temperature exceeds 85 degrees F. as crop injury may result. Note: Because carrot varieties vary in their resistance, determine tolerance of Linuron 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 post-emergence treatment.

CELERY - (NOT FOR USE WEST OF THE ROCKY MOUNTAINS) Post-transplant Application: Make a single application of 1 1/2 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. Do 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 degrees F. nor at 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.

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CORN (FIELD): East of Rocky Mountains - Pre-emergence Application: Select one of the following treatments for application as a tank mixture. Make a single application after planting but before crop emerges. Plant seed at least 1 3/4" deep on flat or raised seedbeds only or injury to the crop may result. Do not spray over top of emerged corn. LINURON 4L + "Lasso" (Dilute "Lasso" with 2 parts of water and add as last ingredient to spray tank.)

PRODUCT PER ACRE

Low Organic Matter (1½ to 3½) LINURON	Moderate Organic Matter (3½ to 6½) LINURON 4L	
SOIL TEXTURE	4L (pts) + Lasso (Qts.)	(pts) + Lasso (Qts)
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 2
Clay loam	1 1/4 to 2 + 1 1/2 to 2	2 to 3 + 2 to 2 1/2

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

PRODUCT PER ACRE

	Low Organic Matter (1½ to 3½) LINURON	Moderate Organic Matter (3½ to 6½) LINURON 4L
SOIL TEXTURE	4L (pts) + Ramrod 65 (lbs)	(pts) + Ramrod 65 (lbs)
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 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. LINURON 4L + Atrazine

PRODUCT PER ACRE

	Low Organic Matter (1½ to 2½) LINURON	Moderate Organic Matter (2½ to 5½) LINURON 4L
SOIL TEXTURE	4L(pts)+Atrazine 80½(lbs)	(pts) + Atrazine 80½ (lbs)
Sandy loam	2/3 to 1 + 1/2 to 2/3	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 Post-emergence 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, and such contact may cause crop injury. Early cultivation (rotary hoe and other suitable equipment) will aid in achieving proper differential between height of corn and weeds. Use 1 1/4 to 3 pts. per acre; add 1 pt. surfactant for each 25 gals. spray mixture. For field corn, non-pressure nitrogen solution may be substituted for all or part of the water. Use the lower rate on lighter soils (low in clay or organic matter) and when weeds do not exceed 2" in height; use the higher rate on heavier soils (high in clay or organic matter) for weeds up to 5" in height.

COTTON - East of Rocky Mountains Only - Directed Post-emergence: 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 1 1/2 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.

PARSNIPS - Pre-emergence Application: Make a single application of 1 1/2 to 3 pts. Apply after planting but before crop emerges. Plant seed at least 1/2" deep.

POTATOES: NOT FOR USE WEST OF THE ROCKY MOUNTAINS - Pre-emergence 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 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. Apply 1 1/2 to 2 1/2 pts. per acre on the lighter soils (sandy loams, silt loams; 1 to 2% organic matter) and 2 1/2 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 emerge). Wisconsin - Central Sands Area: Apply 1 pt. per acre on sands and 2 pts. per acre on loamy sands.

SORGHUM - Pre-emergence 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. LINURON 4L + Propazine (Southwest)

PRODUCT PER ACRE

	Low Organic Matter (1½ to 2½) LINURON 4L (pts)+Propazine 80½(lbs)	Moderate Organic Matter (2½ to 4½) LINURON 4L (pts) + Propazine 80½ (lbs)
Sandy loam	5/8 to 1 + 3/8 to 5/8	1 to 1 1/2 + 5/8 to 1
Silt loam and Clay loam	1 to 1 1/2 + 5/8 to 1	1 to 2 + 5/8 to 1 1/4

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. LINURON 4L + "Ramrod" (Great Plains)

PRODUCT PER ACRE

	Low Organic Matter (1½ to 3½) LINURON 4L (pts)+Ramrod 65 (lbs)	Moderate Organic Matter (3½ to 6½) LINURON 4L (pts) + Ramrod 65 (lbs)
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 Post-Emergence Application: Make a single application of LINURON 4L as a directed spray; add 1 pt. surfactant for each 25 gals. 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 heights; 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 post-emergence application.

SOYBEANS - Pre-emergence Application: Select one of the following herbicide treatments and make a single application after planting but before crop emerges. LINURON 4L, alone or as a tank mixture with "Lasso", may be applied by aircraft (2 to 10 gals. water per acre). Plant seed at least 1 3/4" deep on flat or raised seedbeds only or injury to the crop may result. Do not spray over top of emerged soybeans. LINURON 4L - If weeds have emerged, add 1 pt. surfactant for each 25 gals. spray mixture.

LINURON 4L Pts. Per Acre

Soil Texture	Low Organic Matter (1/2 to 2%)	Moderate Organic Matter (2 to 5%)
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 months, any crop may be planted. LINURON 4L Following "Treflan" Preplant - Where Treflan has been used as a preplant incorporated treatment (according to direction on "Treflan" label), apply as a separate operation using 1/2 the rate recommended above for LINURON 4L alone. For rotation crops, follow instruction on "Treflan" label. LINURON 4L + "Amiben"***

PRODUCT PER ACRE

SOIL TEXTURE	Low Organic Matter (1/2% to 3%) LINURON 4L (pts) + Amiben (Qts)	Moderate Organic Matter (3% to 6%) LINURON 4L (pts) + 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	2 to 3 + 5

Replanting: Soybeans or field corn may be replanted within 4 months; after 4 months, any crop may be planted. LINURON 4L + "Lasso" - East of Rocky Mountains (Dilute Lasso with 2 parts of water and add as last ingredient to spray tank.)

PRODUCT PER ACRE

Soil Texture	Low Organic Matter (1/2 to 3%) LINURON 4L (pts) + Lasso (Qts)	Moderate Organic Matter (3% to 6%) LINURON 4L (pts) + Lasso (Qts)
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 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; after 4 months, any crop may be planted. LINURON 4L + "Ramrod" (Seed Crop Only)

PRODUCT PER ACRE

SOIL TEXTURE	Low Organic Matter	Moderate Organic Matter
	(1% to 3%) LINURON n (pts) + Ramrod 65 (lbs)	(3% to 6%) LINURON 4L (pts) + Ramrod 65 (lbs)
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

Note: Do not graze or feed forage from treated areas to livestock; do not use seed for food, feed, or oil purposes. Replanting: Soybeans, sorghum, or field corn may be replanted within 4 months, any crop may be planted. Planting: Corn or soybeans may be replanted within 4 months; after 4 months, any crop may be planted. Directed Post-emergence Application: Apply Linuron 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 tips smaller than 8002T-Jet (or equivalent) and do not spray under windy conditions. For best results, use a pre-emergence treatment (such as Linuron 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 1/2% organic matter. Do not apply within 60 days of harvest. Do not feed soybean forage or hay to livestock from fields treated post-emergence. Harvested soybeans may be used for food, feed, or oil purposes. LINURON 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 (1/2 to 1 pt. per acre on 8" soybeans); 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.

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 semidormant 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" stage of maturity nor when maximum daily temperature exceeds 60 degrees F; do not use Linuron 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 2 to 3 1/2 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 Linuron 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 a 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. Linuron 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. Linuron 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. Linuron 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 Annual Rainfall is 10 to 20 inches: Fall or Spring Treatment: Apply 1/2 pt. Linuron 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 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. Linuron 4L per acre in 40 to 100 gals. of water. For best results, apply 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 gts. per 100 gals. of spray mixture and apply as a thorough coverage spray during periods when daily temperatures exceed 70 degrees F. and before weed growth exceeds 8" in height.

CONDITIONS OF SALE

All statements concerning the use of this product apply only when used as directed.

THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL.

Read all directions carefully.

*Registered trademarks of Monsanto Company, "Lasso" contains 4 lbs. alachlor.

**Registered trademarks of Elanco Products Company.

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