05-JUL-2004 Notification received of a label change. See below for this change.

20-MAR-2007 - Preservative statement updated 2001/2006

CLEAN CROP®

LINURON 480

HERBICIDE

LIQUID SUSPENSION

For: Field Corn • Soybeans • Wheat • Oats • Barley • Potatoes • Asparagus • Carrots • Sweet White Lupins • Fruit Trees • Chokecherries • Saskatoon Berries • Shelterbelts in Western Canada • Chemical Fallow.

AGRICULTURAL

READ THE LABEL BEFORE USING

Net Contents: 10 L

Update REGISTRATION No. 21507 PEST CONTROL PRODUCTS ACT Contains benzoic acid at 1% and propylene glycol at 9% as preservatives. GUARANTEE: Linuron

0.48 kg/L

PRECAUTIONS:

Keep out of reach of children. May irritate eyes, nose, throat and skin. Avoid breathing spray mist. Avoid contact with skin, eyes and clothing.

FIRST AID

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

EYE CONTACT: In case of contact, flush skin or eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION: If swallowed induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

For medical emergencies involving this product, call a physician or contact a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

Notification Change

UNITED AGRI PRODUCTS CANADA INC.

United Agri Products 789 Donnybrook Drive Dorchester, Ontario NOL 1G5

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 lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of 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 480 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).

DIRECTIONS FOR USE

LINURON should be used only in accordance with recommendations on this label.

LINURON is a liquid suspension to be mixed in water and applied as a spray for selective control of annual weeds in field corn, soybeans, carrots, potatoes, cereals, fruit trees, chokecherries and Saskatoon berries. It is noncorrosive to equipment, nonvolatile, and nonflammable.

LINURON selectively controls annual weeds such as:

Grasses	Broadleaf weeds
crabgrass	chickweed
green foxtail	goosefoot
yellow foxtail	knotweed
witchgrass	lamb's-quarters
barnyard grass 1	redroot pigweed
	purslane
	common ragweed
	shepherd's purse
	smartweed

stinkweed (pennycress)
annual sowthistle
wild buckwheat
wormseed mustard
velvetleaf 1

¹ partial control

NOTE: LINURON will not control established perennial weeds. LINURON will control triazine-resistant weeds in the above list.

LINURON will not control Powell's pigweed (Amaranthus powellii).

GENERAL INFORMATION

Preemergence Use: (Field Corn, Soybeans, Carrots, Potatoes) - soil should be well prepared and as free as possible from trash and clods; plant seed to specified depth on flat or raised seedbeds or crop injury may result. Treatment provides control of annual weed seedlings. Sufficient moisture (usually 3-5cm) in the form of rainfall or irrigation is necessary after treatment to carry the chemical into the root zone of germinating weeds; best results are obtained when this occurs within 7 to 10 days after application. If moisture is insufficient to activate the chemical or if the soil becomes crusted before crop emerges, a shallow (2-4 cm) rotary hoeing should be made after emergence of row crops while weeds are small enough to be controlled by mechanical means; otherwise, avoid cultivating or disturbing the sprayed area. Do not cover treated band with soil while cultivating between rows.

NOTE: If unusually heavy rains follow application, severe injury to field corn, soybeans, carrots, and potatoes may result.

Postemergence Use: (Field Corn, Carrots, Wheat, Oats, Barley and Fruit Trees) - Treatment provides contact kill of growing annual weeds as well as control of germinating weed seedlings. Where addition of a surfactant to the spray mixture is recommended, dilute with 10 parts of water and add as the last ingredient to a nearly full tank.

Use Rates and Soil Limitations - All dosages are expressed as broadcast rates. For band treatment, use proportionately less; for example, for 30 cm band on 90 cm row, use 1/3 of the broadcast rate. Where a range of dosage rates is given, use the lower rates on lighter soil (lower in clay or organic matter) and the higher rates on heavier soils. DO NOT USE ON SANDY OR COARSE-TEXTURED SOILS LOW IN ORGANIC MATTER, AS CROP INJURY MAY RESULT. **Equipment -** Use a fixed-boom power sprayer properly calibrated to insure a constant rate of application. Openings in screens should be equal to or larger than 50 mesh. Agitate by mechanical or hydraulic means in the spray tank. If by-pass or return line is used, it should terminate at the bottom of the tank to minimize foaming.

Replanting - If initial seeding of soybeans, carrots, or potatoes fails to produce a stand, the same crop may be replanted in soil treated with LINURON. Thoroughly rework soil before replanting. Do not retreat field with a second application of LINURON as injury to the crop may result. Do not replant treated areas to other crops within 4 months after last application (or as otherwise directed) as injury to subsequent crops may result.

CAUTION: Do not graze the treated immature crops or cut for hay; there are not sufficient data available to support such use. DO NOT APPLY BY AIR.

SELECTIVE USE IN CROPS

FIELD CORN - Preemergence Application

LINURON Plus Atrazine 80W - Make a single application of LINURON in combination with atrazine 80W, as a band or broadcast spray after planting (at least 5 cm deep) but before corn emerges. Do not spray over top of corn. Do not follow treated corn with sugar beets, tobacco or vegetables in rotation. Prior to replanting to any crop following treated corn, thorough seedbed preparation including fall oR spring plowing is recommended.

BROADCAST APPLICATION

Soils Apply		Apply in 225-33	y in 225-335 L Water per Ha	
Loam or Clay Types	LINURON	plus	Atrazine 80W	
Light coloured - low organic matter (2% or less)	2.25 L	plus	1.5 kg	
Dark coloured - moderate organic matter (2-5%)	3.25 L	plus	2.25 kg	

LINURON Plus Atrazine 90W (or Atrazine 500 g/L) Plus DUAL*** Or

LINURON Plus PRIMEXTRA*** For Triazine-Resistant Lamb's quarters and Triazine-Resistant Redroot pigweed.

Make a single application of LINURON in combination with atrazine and DUAL or LINURON plus PRIMEXTRA as a band or broadcast spray after planting (at least 5 cm deep) but before corn emerges. Do not spray over top of corn. Do not follow treated corn with sugar beets, tobacco or vegetables in rotation. Prior to replanting any crop following treated corn, thorough seedbed preparation including fall or spring plowing is recommended.

Rates to Use - Apply 0.8 to 1.5 litres of LINURON, with 2.0-2.75 Litres DUAL and 1.25-1.75 kg Atrazine 90W (2.25-3.25 L Atrazine 500 g/L Liquid) or 0.8-1.5 L LINURON with 6.5-8.5 L PRIMEXTRA in 225-335 L of water per hectare. Use the lower rate on light coloured soils low in organic matter, (less than 2%). Use the higher rate on dark soils with up to 7% organic matter.

Replanting - Fields treated with a combination of LINURON and atrazine or PRIMEXTRA may be replanted to the same crop if initial seeding fails to produce a stand. Thoroughly rework soil before replanting. Do not re-treat field with a second application during the same crop year as injury to the crop may result. Do not replant treated areas to any crop other than corn within one year after application as injury to subsequent crops may result. In the Prairie Provinces and Interior British Columbia, corn must be planted the year following application. When extended periods of dry weather occur during the year of treatment, there can be some injury to succeeding crops. Please refer to the atrazine or PRIMEXTRA label for pertinent recommendations or restrictions on rotational crops.

Field Corn-Directed Postemergence Application - For field corn NOT treated preemergence with LINURON in combination with Atrazine or Atrazine plus DUAL, make a single application of LINURON as a directed spray after corn is at least 38 cm high (measured to the highest leaf surface of free standing plants). DO NOT SPRAY OVER TOP OF CORN. Treatment effectively controls nutsedge, crabgrass, and many other annual weeds, but is to be applied only when there is sufficient differential between height of corn and weeds. Direct spray to thoroughly cover all weed foliage without contact of upper leaves or whorl of corn by spray or drift, as such contact may cause crop injury. Early application of 2,4-D (follow label directions) and/or early cultivation (rotary hoe or other suitable equipment) will aid in achieving proper differential between height of corn and weeds.

Use 2.4-4.5 L LINURON plus an oil-water emulsion (follow oil label directions carefully). Apply at low pressure, in 170-340 L water per hectare of ground actually sprayed. Use the lower rates when weeds

do not exceed 5 cm in height; use the higher rates for weeds up to 20 cm in height, preferably before weeds are 12 cm high. Control of weeds under drought stress or over 20 cm in height is usually impractical.

NOTE: If a heavy rain follows immediately after application, this treatment may be ineffective. Do not apply within 60 days of harvest.

SOYBEANS - Use one of the following treatments

Preemergence Application - LINURON - Apply LINURON as a band or broadcast spray after planting (at least 5 cm deep) but before soybeans emerge. Do not spray over top of soybeans. See paragraph on replanting under "Selective Use in Crops". Use the high rates of LINURON for ragweed and smartweed control.

Soils Loam or Clay Types	Litres LINURON in 225-335 L Water per Hectare
Light Coloured - low organic matter (2% or less)	2.25 - 3.25
Dark Coloured - moderate organic matter (2-5%)	3.25 - 4.5

BROADCAST APPLICATION

LINURON Following TREFLAN** - PPI Plus Preemergence Application -

Apply TREFLAN (trifluralin) preplant incorporated followed by LINURON preemergence. Follow directions closely on the TREFLAN label (545 EC). Make a single application of LINURON as a band or broadcast spray after planting (at least 5 cm deep) but before crop emerges.

Soils	Apply in 225-335 L Water per Ha		
Loam or Clay Types	TREFLAN	Followed by	LINURON
Light Coloured - low Organic matter (2% or less)	1.1 - 1.5 L	followed by	1.9 - 2.25 L
Dark Coloured - moderate organic matter (2-5%)	1.5 - 2.1 L	followed by	2.25 - 3.25 L

Band Treatment - Use proportionately less; for example, for 30 cm

band on 90 cm row, use 1/3 of the broadcast rate.

Soil Limitations - Do not use on coarse-textured soils, low in organic matter, as crop injury may result.

Soybeans - Eastern

Canada Only

LINURON Plus DUAL***

LINURON plus DUAL is recommended for use in soybeans as a preemergence tank mix or split application treatment for the control of many annual broadleaf weeds and grasses. American nightshade is controlled. Yellow nutsedge is controlled by the split application.

Rates of Use:

Apply 1.9-2.3 L/ha LINURON and 2.1-2.8 L/ha DUAL for all treatments.

Preemergence: Apply a tank mix in 70 to 135 L water per hectare.

Split Application: Apply DUAL pre-plant incorporated followed by LINURON preemergence.

Apply as a band or broadcast treatment before crops and weeds emerge.

Carefully follow the instructions for incorporation on the DUAL label.

Note: Do not use DUAL on muck, peat muck or high organic matter soils. Do not use on sandy or coarse textured soil, low in organic matter. Do not incorporate tank mixes of LINURON and DUAL.

SPRING WHEAT, OATS, BARLEY

LINURON plus MCPA - Make a single application of LINURON in combination with MCPA as a tank mix. Apply at the 2 to 4 leaf stage of cereals. Initial temporary lightening of crop colour may be observed. Later spraying reduces crop tolerance and weed control. Early application is important to avoid crop injury, especially to barley. MCPA amine is registered for use on spring wheat, oats and barley. MCPA potassium salt is registered for use on spring wheat and barley only.

Rate of Application Per Ha

Use 100 L Water/Ha at 200-275 kPa			
LINURON +	MCPA Amine (500 g/L)	or MCPA potassium salt (400 g/L)	
425-550 mL +	0.85 - 1.1 L	or 1.0 - 1.4 L	
		ditions and rainfall are treat 18-23 Ha depending on	

Treatment - Treatment is recommended for control of certain annual weeds in spring wheat, oats and barley. Barley may suffer some growth suppression, maturity delay and yield reduction, but these would be more than offset if the weed infestation is heavy. Application at the 1 to 4 leaf stage will control top growth of Canada thistle and annual weeds such as tartary buckwheat, wild buckwheat, cow cockle, flixweed, hemp-nettle, green smartweed, corn spurry, lady's thumb, stinkweed, stork's-bill, redroot pigweed, lamb's-quarters, chickweed, shepherd's-purse and ragweed. When applied at the 1-3 leaf stage of green foxtail, suppression may be obtained. Some annual weeds such as barnyardgrass, cleavers, Russian thistle and wild oats, and perennial weeds such as bindweed and quackgrass are not controlled.

Application Instructions - Mix the proper amount of LINURON into the necessary volume of water in the spray tank with the agitator running. For a tank mixture, slowly add the required amount of MCPA as the last ingredient to the spray tank. Continuous agitation in the spray tank is required. Avoid overlapping, and shut off spray boom while starting, turning, slowing or stopping, or injury to the crop may result.

Ensure that the sprayer is equipped with 50 mesh line strainers and screens. Stainless steel or hardened stainless steel nozzles are recommended.

The sprayer pump must be of sufficient capacity to supply adequate agitation through the bypass or jet agitator which should terminate in the bottom of the tank. The Hypro C6400 (6 roller) nylon roller pump generally will not supply sufficient agitation and nozzle output.

The Hypro C7700 (7 roller) nylon roller pump usually has sufficient capacity to apply 100 L/ha and keep the material in the sprayer in suspension. The ideal pumps are the Hypro C1700 (5 roller) Teflon roller pump and the Hypro C1500 (6 roller) pump.

Note: Do not use when crops are under drought stress. Do not use when crop is underseeded to forage crops. Do not graze or feed green plants to livestock. Do not treat field with a second application of LINURON during the same crop year as injury to crop may result.

POTATOES - Preemergence Application -

Make a single broadcast application of LINURON at 2.25 to 4.5 L per ha (see paragraph on Soil Limitations) after planting (at least 5 cm deep) but before crop emerges. Use sufficient water (300 L per ha) to cover the ground evenly. If beds are to be "dragged" and/or "hilled", apply after the final "dragging" or "hilling" operation. Apply before emerged grasses are 5 cm tall and before broadleaf weeds are 15 cm tall. Do not apply after the potatoes have emerged. Use high rates of LINURON for grass control.

POTATOES (Eastern Canada Only) LINURON Plus DUAL

LINURON plus DUAL is recommended for use in potatoes as a preemergence tank mix or split application treatment for the control of many annual broadleaf weeds and grasses. American nightshade is controlled. Yellow nutsedge is controlled by the split application.

Rates of Use:

Apply 1.9 to 2.3 L/ha LINURON and 2.1 to 2.8 L/ha Dual for all treatments.

Preemergence: Apply a tank mix in 70 to 135 L of water per ha.

Split Application: Apply DUAL pre-plant incorporated followed by LINURON preemergence.

Apply as a band or broadcast treatment before crops and weeds emerge.

Carefully follow the instructions for incorporation on the DUAL label.

Note: Do not use the LINURON plus DUAL tank mix on the potato variety Superior. Do not use DUAL on muck, peat muck or high organic matter soils. Do not use on sandy or coarse textured soil, low in organic matter. Do not soil incorporate tank mixtures of LINURON and DUAL. Do not use at ground crack if potatoes have emerged.

ASPARAGUS

Preemergence Application - Make a single application of LINURON 480

at 3.4 to 4.5 L/ha immediately after first dicing, before asparagus emerges. Use sufficient water (300 L/ha) to cover the ground evenly. Treatment may be repeated after the last cutting.

CARROTS

Preemergence Application - Make a single application of 1.1 to 3.4 L in 225-335 L water per ha of ground actually sprayed. Apply as a band or broadcast spray after planting (at least 1 cm deep) but before carrots emerge. See paragraph on Soil Limitations.

NOTE: Crop injury may result from preemergence application at the higher rate.

Postemergence Application - For carrots NOT treated preemergence, make a single application of LINURON as a non-directed spray when carrots have two or more fully developed true leaves (8 to 15 cm tall). Use 2.25 to 4.5 L in 225 to 335 L water per ha of ground actually sprayed. Use the lower rate on small seedling weeds and the higher rate on larger established weeds. Apply before annual grasses exceed 5 cm in height and before broadleaf weeds exceed 15 cm in height. Use nozzle pressure of 175-275 kPa; do not exceed 275 kPa as crop injury may result. Do not apply LINURON as a tank mixture with herbicidal oil or with a surfactant, nor when temperatures exceed 32EC, as crop injury may result.

Combination Pre Plus Postemergence Application - Make a preemergence application of LINURON at 1.1 to 2.25 L per ha and follow with a postemergence application of 2.25 to 4.5 L per ha provided treatments are at least 2 weeks apart. Shorter time intervals between applications may result in injury to the crop. Observe limitations detailed above for pre and postemergence use in carrots.

NOTE: If unusually heavy rains follow application, severe injury may result.

SWEET WHITE LUPINS

Apply LINURON at 2.1-3.1 L/ha as a broadcast spray after planting (at least 5 cm deep) but before lupins emerge. Use the lower rate on light coloured soils with less than 2% organic matter. Do not spray after lupins have emerged. Refer to the section on "Selective Use in Crops" for more information on preemergence use, soil limitations and replanting. Do not harvest lupins within 80 days of treatment.

FRUIT TREES

(Peach, Apple, Pear, Plum, Cherry) - Make a single application of 9L LINURON per ha plus a surfactant in 400 to 600 L water per ha of ground actually sprayed. Apply as a directed spray under the trees before weeds are 10 cm high. Avoid contact of fruit, foliage, and

green bark with spray or drift as injury to the trees may result. Use only where trees have been established in the orchard for at least 10 years (1 year in the case of peach trees.)

CHOKECHERRIES (Fall Seeded Plantings)

For control of annual broadleaved weeds and annual grasses, apply LINURON 480 at 3.5 L/ha in 215 L of water. Apply in the fall after the crop has been seeded.

SASKATOON BERRIES (Established Planting)

For the control of annual broadleaved weeds and annual grasses in Saskatoon berry plantings established for at least one year, apply LINURON 480 at 4.2-6.3 L/ha in 225-325 L of water. Apply in the fall or early spring as a directed spray to uniformly cover the soil surface and emerged weeds without contacting the crop foliage. Use the lower rate on a coarse textured soil with 2% or less organic matter. Do not apply within 50 days of harvest. Do not apply more than once per season.

SHELTERBELTS IN WESTERN CANADA

(Caragana, green ash, Siberian elm, American elm, Boxelder, Poplar, Willow, White spruce, Colorado spruce and Scotch Pine)- Make a single application of LINURON 480 at 4.5 L/ha. Apply only on stock planted for at least one year as a directed spray under the trees and bushes before weeds are 10 cm high and before buds open in the spring.

CHEMICAL FALLOW

LINURON 480 plus SWEEP plus MCPA tank mix - For control of emerged annual grasses and broadleaved weeds, apply a tank mix of LINURON 480 at 550 mL/ha plus SWEEP at 2.25 L/ha plus MCPA Amine 500 at 1.10 L/ha. Apply the mixture in 100 L/ha of water with ground equipment only, when broadleaved weeds are small and actively growing and annual grasses are in the 2-4 leaf stage. This mixture should be applied only once per season and only in the spring.

Note: Refer to the LINURON 480, SWEEP, and MCPA labels for lists of weeds controlled and use precautions.

DISPOSAL:

- 1. Triple or pressure-rinse the empty container. Add the rinsing to the spray mixture in the tank.
- 2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.

- 3. Make the empty container unsuitable for further use.
- 4. Dispose of the container in accordance with provincial requirements.
- 5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER:

This control product is to be used only in accordance with the directions on the label. It is an offense under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

NOTE TO BUYER:

Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

Purchase of this material does not confer any rights under patents of countries outside Canada.

TREFLAN is a registered trademark of Dow. *DUAL and PRIMEXTRA are registered trademarks of Syngenta.

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	[[JUG	SLEEVE]]	
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LINURON 480

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LIQUID SUSPENSION

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FIRST AID

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

EYE CONTACT: In case of contact, flush skin or eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION: If swallowed induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

For medical emergencies involving this product, call a physician or contact a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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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 lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides, and seeds.

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UNITED AGRI PRODUCTS CANADA INC.

United Agri Products, 789 Donnybrooke Drive Dorchester, Ontario, NOL 1G5 EPA Est. 37429-GA-1

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