

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 19713-251	DATE OF ISSUANCE MAR 29 1990
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT Drexel Linduron DF	

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
 (Under the Federal Insecticide, Fungicide
 and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Janis Moore
 Labeling, Registration
 Drexel Chemical Company
 P.O. Box 4200
 Memphis, TN 38108

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The registrant is advised that the following conditions apply to the registration of this product:

1. Submit a copy of the label for registration/reregistration of your product under FIFRA, and a copy of the Agency's labeling of similar products to submit such data.
2. Add the Agency's EPA Registration No. "19713-251" to your label before you release the product for shipment.
3. Submit any Confidential Information. Your original CIE incorrectly states the EPA registration for your product as 19713-53. The correct EPA Reg. No. is 19713-251.
4. Submit five (5) copies of the label printed on the label before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation at any time under FIFRA, sec. 4(a). Your release for shipment of the product is subject to the fulfillment of these conditions.

A copy of the label is being furnished to you for your records.

Sincerely yours,

 Registration Division, EPA

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ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Robert J. Taylor

DATE
3/29/90

Drexel
Linuron DF

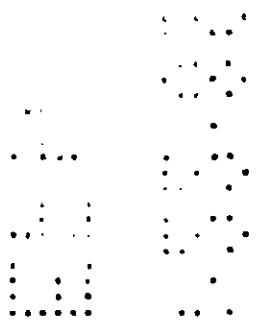
HERBICIDE

ACTIVE INGREDIENT:
 Linuron [3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea] 50.0%
INERT INGREDIENTS: 50.0%
TOTAL: 100.0%
**KEEP OUT OF REACH OF CHILDREN
 CAUTION**
 EPA Reg. No. 19713-
 EPA Est. No. 19713-MS-

PRECAUTIONARY STATEMENTS
 HAZARDS TO HUMANS AND DOMESTIC ANIMALS
 ...
 STATEMENT OF HEALTH AND TREATMENT
 ...
 EPA Reg No. 19713-MS-

For best results, the recommended application rate of 1.0 to 1.5 lbs. a.i./A is adjusted so that weeds are sprayed but the crop is not. May be used in emerged asparagus (large farms), corn field and sweet corn, and soybeans to effectively control susceptible emerged weed crop weeds.
 Linuron DF may be applied to suppress the emergence of weeds to control susceptible weeds seedlings for an extended period of time; the degree of control and duration of effect will vary with Soil Organic Matter Content. High organic matter requires higher dosage than low organic matter. For equivalent herbicide performance, best results commonly require pre-emergence use of 1.0 to 1.5 lbs. a.i./A in 10% to 3% organic matter. The soil to be treated with Linuron DF must contain 2% to 4% herbicide. Provides multiple pre-emergence weed control on a 1.0 to 1.5 lbs. a.i./A application.
 Soil Texture (in heavy soils) can be a factor in dosage. Best results are obtained with less dry soil. Results may vary with pre-emergence use of 1.0 to 1.5 lbs. a.i./A in 10% to 3% organic matter.
 Rainfall. Moderate rainfall is desirable for pre-emergence application. High rainfall may cause a significant amount of herbicide to be washed away. High rainfall may also cause weeds to emerge and grow more rapidly.
 Weed Species And Conditions of Growth. Efficacy varies with species and may be more effective on some weeds under stress.
 Linuron DF is not intended for use on susceptible weeds in corn fields, soybean fields, cotton fields, and other fields where susceptible weeds are present.
 PRE-EMERGENCE USE. Generally, use 1.0 to 1.5 lbs. a.i./A in 10% to 3% organic matter in 10% to 3% organic matter.
 Broadleaves: Chickweed, Cirsium, Cornfield bindweed, Groundnut, Groundsage, Knotweed, Lamium, Ragwort, Spotted knighthead, Spurge, Wood sorrel
 Grasses: Barnyard grass, Crabgrass, Field bindweed, Pigeon grass, Yellow foxtail, Yellow nutsedge, Wild oat
 For a complete list of weeds controlled by Linuron DF, see the Weed Control Chart.
 Linuron DF is not intended for use on susceptible weeds in corn fields, soybean fields, cotton fields, and other fields where susceptible weeds are present.
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ACCEPTED
 The Commission of Superficial and Federal Use Act as amended for the purpose of the Act.
 EPA Reg No. 19713-MS-



BRUNNEN

5 Close jar and shake well

6 Watch mixture for several seconds, check again in 30 minutes

7 If mixture does not separate, foam, gel, or become lumpy, it may be used

8 Mixing ability may be improved by adding compatibility agents such as Kalo Laboratories "Complex" or Waco Chemicals "Sponso" 1880. Follow directions on container

If the mixture is compatible, prepare spray by adding the fertilizer solution to the spray tank with agitator running. For tank mixtures with other herbicides, follow directions above

Equipment—Spray Volumes And Pressures. Application is limited to a ground boom 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 bypass or return line as 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 20 to 60 gals per acre and spray pressure of 30 to 40 psi. For postemergence application, use sufficient volume (min 20 gals per acre) for thorough coverage of weed foliage, use spray pressure of 20 to 25 psi to keep spray drift to a minimum

Use Rates: All rates of LINURON DF (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 a range of dosage is given, use the lower rate on coarser soils (low in clay or organic matter) and the higher rate on finer 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 or on soils containing less than 1% organic matter as injury to the treated or subsequent crops may result

Replanting: If initial seeding fails to produce a stand, crops registered for the rate of LINURON DF that has been applied may be replanted into the treated area. Thoroughly rework soil before replanting. Do not retreat during the same crop year as injury to the crop may result

Crop Rotation Recommendations: Unless otherwise directed, any crop may be planted after 4 months except for cereals where only barley, oats, rye and wheat may be planted

West of Rocky Mountains: Carrots or celery may be planted 4 months after last application, do not plant any other crop until 1 year after the last application

CROP USES

ASPARAGUS

CALIFORNIA (Includes control of dudain melon and nightshade)

Direct Seeded or Newly Planted Crops—Do not exceed 4 lbs total per acre per season, do not use surfactant or fertilizer solution in spray mixture

Preemergence Application: Make a single application of 2 to 4 lbs per acre after planting seed 1 1/2" deep in fine soils. During planting operation, spray activated charcoal ("AquaNu-Char"™ or "Crop-Safe") as a 1" band on soil surface directly over seed rows at the rate of 300 lbs per acre (equivalent to 5 lbs per acre of crop with 20" row spacing)

Postemergence Application: Make 1 or 2 applications of 1 to 2 lbs per acre when ferns are in 6" to 16" stage and weeds are not over 4" tall

Established Beds: Do not apply within 1 day of harvest, do not exceed 8 lbs total per acre per season, do not use surfactant or fertilizer solution in spray mixture. Do not reenter treated areas for 24 hours following application unless protective clothing is worn

Preemergence Application: Make a single application of 2 to 4 lbs per acre

Postemergence Application: Make 1 to 4 applications of 1 to 2 lbs per acre before weeds exceed 4" in height. Apply before cutting season or immediately after cutting. Do not reenter treated areas for 24 hours following application unless protective clothing is worn

Directed Postemergence Application (Fern Stage): Make a single application of 4 to 8 lbs per acre as directed spray to base of plants for control of dudain melon

Note: If more than 4 lbs LINURON DF per acre is applied per season, do not plant any other crop until 1 year after last application. See "Replanting". Do not enter treated postemergence for 24 hours following application unless protective clothing is worn

*Preemergence weed control will be reduced in soils with high organic matter (greater than 5% and peat or muck)

CARROTS

Preemergence Application—Florida, Michigan and Wisconsin: Make a single application of 1 to 2 lbs per acre in Florida and 1 to 3 lbs per acre in Michigan and Wisconsin, apply after planting but before carrots emerge, plant seed at least 1/2" deep. Use the lower rate on lighter soils (low in clay or organic matter) and higher rate on heavier soils (high in clay or organic matter). Subsequent postemergence application may be made provided the total does not exceed 4 lbs LINURON DF per acre per season

Postemergence Application—U.S.: Apply 1 1/2 to 3 lbs 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 lbs LINURON DF per acre (West of Rocky Mountains, do not exceed 3 lbs LINURON DF per acre). Do not exceed 40 psi spray nozzle pressure as crop injury may result

LINURON DF may be applied following an application of Stoddard solvent provided treatments are at least one day apart. Stoddard solvent may be applied following application of LINURON DF provided treatments are at least 2 weeks apart. Shorter time intervals between applications may result in injury to the crop. Do not apply LINURON DF as a tank mixture with Stoddard solvent, surfactants, nitrogen or fertilizer 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 LINURON DF 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 with LINURON DF. Do not reenter treated areas treated postemergence for 24 hours following application unless protective clothing is worn. See "Replanting"

CELERY

East of Rocky Mountains—Post transplant Application: Make a single application of 1 1/2 to 3 lbs 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 or fertilizer 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. See "Replanting". Do not reenter treated areas for 24 hours following application unless protective clothing is worn

CORN (FIELD)

Preemergence Application—East of Rocky Mountains: 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 3/4" deep on flat or raised seedbeds any or injury to the crop may result. Do not spray over top of emerged corn

LINURON DF at 3/4 to 1 lb per acre (tank mixed with standard registered herbicides for corn) controls triazine-resistant lambsquarters on soils of 1 to 4% organic matter east of the Rocky Mts

LINURON DF + alachlor

Soil Texture	Product Per Acre			
	1 to 3% Organic Matter LINURON DF + alachlor (lbs) (qt)		3 to 6% Organic Matter LINURON DF + alachlor (lbs) (qt)	
Coarse Sandy loam	2/3 to 1-1/4	3/4 to 1	1-1/4 to 2	1 to 1-1/2
Medium Loam, Silt loam, silty loam, silty sandy clay, Sandy clay loam	1 to 1-2/3	1 to 1-1/2	1-2/3 to 2-1/2	1-1/2 to 2
Fine Silty clay, Silty clay loam, Clay, 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. See "Replanting"

Soil Texture	Product Per Acre			
	1 to 3% Organic Matter LINURON DF + propachlor (lbs) (qt)		3 to 6% Organic Matter LINURON DF + propachlor (lbs) (qt)	
Coarse Sandy loam	2/3 to 1-1/3	1-1/3 to 2	1-1/3 to 2	2-3/5 to 3-6/10
Medium Loam, Silt loam, silty loam, silty sandy clay loam	1 to 1-1/2	2/3 to 1	1-1/2 to 2-1/2	1 to 2-1/2
Fine Silty clay, Silty clay loam, Clay, Clay loam	1-1/3 to 1-2/3	3/4 to 1	1-2/3 to 3	1 to 2-1/2

Replanting: Corn may be replanted after 4 months. See "Replanting"

LINURON DF + atrazine (Tank Mixture)

For improved control of annual grasses, add alachlor as recommended on alachlor labeling for alachlor/ atrazine combinations

Soil Texture	Product Per Acre			
	1 to 2% Organic Matter LINURON DF + atrazine 80% (lbs) (qt)		2 to 5% Organic Matter (LINURON DF + atrazine 80% (lbs) (qt)) Coarse	
Coarse Sandy loam	2/3 to 1	1/2 to 2/3	1 to 2	2/3 to 1-1/4
Medium Loam, Silt, Sandy clay, Sandy clay loam	1 to 1 1/2	3/4 to 1	1-2/3 to 3	1 to 2
Fine Silty clay, Silty clay loam, Clay, Clay loam	1-1/3 to 1-2/3	3/4 to 1	1-2/3 to 3	1 to 2

Corn may be replanted within 4 months, after 4 months, see "Replanting"

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. Use 1 1/4 lbs per acre, add 1 pint Surf-Ac 820 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. Do not reenter treated areas for 24 hours following application unless protective clothing is worn. See "Replanting"

COTTON

Directed Postemergence Application—East Rocky Mountains: Apply as directed spray, adjust nozzles to minimize contact to cotton leaves with spray or drift or crop injury may result. Do not spray over top of cotton. Apply 1 to 1 1/2 lbs per acre when cotton is at least 8" tall and emerged weeds do not exceed 2" in height, add 1 pint Surf-Ac 820 for each 25 gals spray mixture. If needed, a second application at 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 lbs per acre following last cultivation, if emerged weeds are present, add Surf-Ac 820 as directed above. Note: Do not use on Pima varieties of cotton. Do not graze treated fields or feeds forage from treated areas to livestock. Do not feed grain to livestock. Do not reenter treated areas for 24 hours following application unless protective clothing is worn. See "Replanting"

PARSNIPS

Preemergence Application: Make a single application of 1 1/2 to 3 lbs per acre. Apply after planting but before crop emerges. Plant seed at least 1/2" deep. See "Replanting"

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 pint Surf-Ac 820 for each 25 gals spray mixture. If 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 a bicide application and follow with sprinkler irrigation to activate the herbicide

East of Rocky Mountains: Apply 1 1/2 to 2 1/2 lbs per acre on the coarser soils (sandy loam, silty loam, 1 to 2% organic matter) and 2 1/2 to 4 lbs per acre on finer soils (silt, clay loam, 2 to 5% organic matter), on soils over 5% organic matter, use 4 lbs per acre and apply to emerged weeds (before potatoes emerge)

Wisconsin—Central Sands Area: Apply 1 lb per acre on sands and 2 lbs per acre on loamy sands. Northeast: For improved control of annual grasses (see metolachlor labeling), apply



Soil Texture	Product Per Acre	
	1 to 3% Organic Matter LINURON DF + metolachlor DE (lbs) (pts)	3 to 6% Organic Matter LINURON DF + metolachlor DE (lbs) (pts)
Coarse Sandy loam	1 to 1½ + 1½	1½ to 2 + 2
Medium Loam, Silt loam, Silty loam, Silty sandy clay, Sandy clay loam	1½ to 2 + 2	2 to 2½ + 2½ to 3

See Replanting 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.

LINURON DF + propachlor—Great Plains

Soil Texture	Product Per Acre	
	1 to 3% Organic Matter LINURON DF + propachlor (lbs) (4 lbs/gal)	3 to 6% Organic Matter LINURON DF + propachlor (lbs) (4 lbs/gal)
Coarse Sandy loam	2/3 to 1-1/3 + 1-1/3 to 2-3/5	1-1/3 to 2 + 2-3/5 to 3-6/10
Medium Loam, Silt loam, Silty loam, Silty sandy clay, Sandy clay loam	1 to 1-2/3 + 2 to 2-3/5	1-2/3 to 2-1/2 + 3-1/3 to 5 1/5
Fine Silty clay, Silty clay loam, Clay, Clay loam	1/4 to 2 + 2-3/5 to 3-9/10	2 to 3 + 3-9/10 to 6-1/5

Note: Do not graze or feed sorghum forage of silage from treated fields to dairy animals. Replanting Sorghum or field corn may be replanted within 4 months, after 4 months, see "Replanting."

Directed Postemergence Application: Make a single application of LINURON DF as a directed spray, add 1 pint Surf-Ac 820 for each 25 gals spray mixture. If sprayer is equipped with ekids, shoes or shields, apply 1 lb per acre when sorghum is 12" tall (free standing plants) and weeds are up to 2" in height. Use 1 to 2 lbs per acre when sorghum is 15" tall and weeds are 2" to 4" in height. If boom drops are used, apply 1 to 2 lbs per acre when sorghum is at least 18" 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. See "Replanting." Do not reenter treated areas for 24 hours following application unless protective clothing is worn.

SOYBEANS—CONVENTIONAL TILLAGE

Preemergence Application: For broad spectrum weed control, select one of the following herbicide combination treatments and 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. Injury to soybeans may result if application is made to fields with standing water or fields too wet to cultivate. Do not spray over top of emerged soybeans. Do not use on sand or loamy sand nor any soil containing less organic matter than listed below.

LINURON DF + metribuzine DF*

For control of common ragweed, hemp sesbania, jimsonweed, lambsquarters, pigweeds, prickly sida, sicklepod, velvetleaf, spotted spurge, Venice mallow, purslane, carpetweed, Pennsylvania smartweed, and partial control of cocklebur*, use the following:

Soil Texture	Product Per Acre	
	1/2 to 3% Organic Matter LINURON DF + metribuzine DF (lbs) (lbs)	3 to 6% Organic Matter LINURON DF + metribuzine DF (lbs) (lbs)
Coarse Sandy loam	1/3 to 1/2 + 1/6 to 1/4	1/2 to 1-1/2 + 1/4 to 1/2
Medium Loam, Silt loam, Silty loam, Silty sandy clay, Sandy clay loam	1/2 to 3/4 + 1/4 to 1/3 or (metribuzine 4L--2/5 to 1/2 pt)	3/4 to 1-1/2 + 1/3 to 2/3 or (metribuzine 4L--1/2 to 3/4 pt)
Fine Silty clay, Silty clay loam, Clay, Clay loam	3/4 to 1-1/2 + 1/3 to 1/2 or (metribuzine 4L--1/2 to 3/4 pt)	1-1/2 to 2 + 1/2 to 2/3 or (metribuzine 4L--3/4 to 1 pt)

*For improved control of annual grasses, tank mix with atachlor or metolachlor (per labeling)

Herbicide Recropping/Restrictions
 Atachlor Soybeans or field corn may be replanted within 4 months, after 4 months, see "Replanting." Treated vines may be grazed or fed to livestock 40 days after application.
 or
 Metolachlor Soybeans or field corn may be replanted within 4 months, for rotation crops, see "Replanting" and follow instructions on metolachlor label.
 Do not graze or feed forage from treated areas to livestock.

Note: Soybean varieties such as Aron, Coler 102 and 156, Govan, NKS 1884, Semmes, Tracy, Vansoy, Terre Vig 505 and 606, Agripro 55, Aagrow 8620, Maple Amber, Portage, Vinton 81, and AP 71 are sensitive to metribuzine. Injury may occur if metribuzine is used on these varieties. Before use on any other soybean variety, tolerance to metribuzine must first be determined. Varieties showing above average tolerance to metribuzine must first be determined. Varieties showing above average tolerance to metribuzine are Americana Revere, Aagrow 1937, Aagrow 3659, Aagrow 3860, DSR 171, DSR 27, Essex, Fayette, Healy 170, Lakota, Lawrence, LOK 4207, NKS 1402, Pride B216, Pnds B242, SARF 250, SARF 350 P, Union, Wayne, Wells II and Williams 82. For maximum weed control, use the higher rate (where a range of rates is listed) for the appropriate soil type and organic matter as shown in the following table. Injury to soybeans may occur if metribuzine is used on soils having a calcareous surface layer or pH of 7.5 or higher, or if used in conjunction with soil applied organic phosphate pesticides such as chlorpyrifos, diafenthiopron, ethoprophos, fenamiphos, fenoxifluthion, parathion, phorate or terbufos. Injury may occur if atrazine was applied on the soil the year before use of metribuzine. Seeding disease, cold weather, deep planting (more than 2"), excessive moisture, high soil pH (pH 7.5 or higher), high salt concentration, or drought may weaken soybean seedlings and increase possibility of crop injury.

Do not use on sand nor loamy sand. Cultivation after planting: Treated soil may be shallow-cultivated, rotary-hoed, or hand-hoed without reducing the weed control activity of the tank mixture. Do not cultivate deeper than the treated layer of soil since this may bring untreated soil to the surface and poor weed control may result.

Replanting: If initial seeding fails to produce a stand, treated fields may be replanted to soybeans; do not rework soil; do not retreat field with a second application as injury to crop may result. Do not replant treated areas to any crop other than soybeans within four months after treatment as injury to subsequent crops may result. See "Replanting."

Soil Texture	Product Per Acre	
	1/2 to 3% Organic Matter LINURON DF (lbs)	3 to 6% Organic Matter LINURON DF (lbs)
Coarse Sandy loam	2/3 or 1-1/4	1-1/4 to 2
Medium Loam, Silt loam, Silty loam, Silty sandy clay, loam	1 to 1-2/3	1-2/3 to 2-1/2
Fine Silty clay, Silty clay loam, Clay, Clay loam	1-1/4 to 2	2 to 3

Herbicide Recropping/Restrictions
 atachlor Soybeans or field corn may be replanted within 4 months, after 4 months, see "Replanting."

or
 metolachlor Soybeans or field corn may be replanted within 4 months, for rotation crops, see "Replanting" and follow instructions on metolachlor label. Do not graze or feed forage from treated areas to livestock.

or
 Pendimethalin Soybeans or field corn may be replanted within 4 months, for rotation crops, see "Replanting" and follow instructions on metolachlor label. Do not graze or feed forage from treated areas to livestock.

or
 oryzalin Soybeans or field corn may be replanted within 4 months, after 4 months, see "Replanting" but do not plant potatoes within 12 months. Do not use treated vines for feed or forage.

or
 chloramben Soybeans or field corn may be replanted within 4 months, after 4 months, see "Replanting."

For control of black nightshade, apply

Soil Texture	Product Per Acre	
	1 to 3% Organic Matter LINURON DF (lbs)	alachlor (lbs)
Coarse Sandy loam	3/4 to 1-1/2	2
Medium Loam, Silt loam, Silty loam, Silty sandy clay, Sandy clay loam	1 to 1-2/3	2-1/2 to 3
Fine Silty clay, Silty clay loam, Clay, clay loam	1/4 to 2	3

Do not use on sand or loam sands. Replanting: Soybeans or field corn may be replanted within 4 months, after 4 months, see "Replanting." For control of black nightshade in Kentucky, Illinois, Indiana and Ohio.

Soil Texture	Product Per Acre	
	1 to 3% Organic Matter LINURON DF (lbs)	alachlor DE (lbs)
Coarse Sandy loam	3/4 to 1-1/2	1-1/2
Medium Loam, Silt loam, Silty loam, Silty sandy clay, Sandy clay loam	1 to 1-2/3	2
Fine Silty clay, Silty clay loam, Clay, Clay loam	1-1/2 to 2	2 to 2-1/2

Do not use on sand or loam sands. Replanting: Soybeans or field corn may be replanted within 4, after 4 months, see "Replanting."

Preemergence Following trifluralin or pendimethalin Preplant: Where trifluralin or pendimethalin has been used as a preplant incorporated treatment (according to instructions on product label), apply LINURON DF preemergence (after planting and before emergence of soybeans) as a separate operation using rates recommended below for LINURON DF alone. For rotation crops, follow instructions on trifluralin or pendimethalin labels and see "Replanting." Plant seed at least 1-3/4" deep on flat or raised seedbeds only or injury to the crop may result. Injury to soybeans may result if application is made to fields with standing water or fields too wet to cultivate. Do not spray over top of emerged soybeans. Do not use on sand or loamy sand nor any soil containing less organic matter than listed below.

LINURON DF Alone: If weeds have emerged, add 1 pint Surf-Ac 820 for each 25 gals spray mixture.

Soil Texture	Pounds LINURON DF Per Acre	
	1/2 to 3% Organic Matter	3 to 6% Organic Matter
Coarse Sandy loam	1 to 1-2/3	1-2/3 to 3
Medium Loam, Silt loam, Silty loam, Silty sandy clay, Sandy clay loam	1-1/4 to 2 1/3	2-1/3 to 4
Fine Silty clay, Silty clay loam, Clay, Clay loam	1-1/3 to 2 2/3	2-2/3 to 6 (over 5% organic matter, use 6 lbs)

Replanting: Soybeans or field corn may be replanted within 4 months, after 4 months, see "Replanting."

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Preemergence Followed by Postemergence (Directed) Application: Both preemergence and postemergence (directed to weeds with minimum contact with soybean plants) treatments may be required for control of

Annual Morningglory-- LINURON DF preemergence (any combination listed) followed by a directed postemergence spray of LINURON DF + 2,4-DB

Broadleaf Signalgrass-- LINURON DF + metribuzin DF preemergence followed by a directed postemergence spray of LINURON DF, if needed

Cockspur (common)-- LINURON DF + metribuzin DF preemergence followed by a directed postemergence spray of LINURON DF + 2,4-DB

Hemp sesbania-- LINURON DF + metribuzin DF preemergence followed by a directed postemergence application of LINURON DF, if needed

Prickly sida-- LINURON DF + metribuzin DF preemergence followed by a directed postemergence spray of LINURON DF, if needed

Violetleaf-- LINURON DF + metribuzin DF preemergence followed by a directed postemergence application of LINURON DF, if needed

Other weeds-- Directed postemergence application of LINURON DF should be used as a backup treatment for late preemergence treatments and will extend the duration and degree of weed control obtained with preemergence treatment. Postemergence treatment should be used only as needed. For dosage rates, refer to "Preemergence" and "Directed Postemergence" sections under "Soybeans."

SOYBEANS--MINIMUM OR NO-TILLAGE

Preemergence to Soybeans Postemergence to Weeds: LINURON DF preemergence to soybeans may be used for preemergence and postemergence control of many broadleaf weeds and grasses where soybeans will be planted directly into a prepared bed (state seed bed), cover crop or in previous crop residues such as corn or small grain stubble. Apply with ground equipment immediately before, during or after planting but before crop emerges, maintain constant agitation of spray mixture.

Soil Texture	Pounds LINURON DF Per Acre	
	1/2 to 2% Organic Matter	2 to 5% Organic Matter
Coarse Sandy loam	1 to 1-2/3	1-2/3 to 3
Medium Loam, Silt loam, Silt Sandy clay, Sandy clay loam	1-1/4 to 2 1/3	2 1/3 to 4
Fine Silty clay, Silty clay loam, Clay, Clay loam	1-1/3 to 2-2/3	2 2/3 to 5 (over 5% organic matter, use 6 lbs)

Replanting: Soybeans or field corn may be replanted within 4 months after 4 months, see "Replanting."

If small seeding weeds are present, add 1 pint Surf-Ac 820 for each 25 gals glyphosate or Bronco as described under these combinations, these treatments will also suppress some perennial weeds.

LINURON DF + alachlor or metolachlor 8E or oryzalin-- will improve control of grasses and volunteer small grains.

LINURON DF + alachlor* (or metolachlor* or oryzalin*) + paraquat or glyphosate-- Thoroughly mix LINURON DF and companion herbicide in spray tank first according to directions, then add paraquat or glyphosate as directed under paraquat combinations or glyphosate combinations.

Soil Texture	Product Per Acre			
	1 to 3% Organic Matter LINURON DF + alachlor (lbs) (lbs)		3 to 5% Organic Matter LINURON DF + alachlor (lbs) (lbs)	
Coarse Sandy loam	3/4 to 1-1/2	2	1 1/2 to 2 2/5	2 1/2
Medium Loam, Silt Loam, silt, Sandy clay, Sandy clay loam	1-1/8 to 2	2-1/2	2 to 3	3
Fine Silty Clay, Silty Clay loam, Clay Clay loam	1 1/4 to 2	2 1/2	2 1/4 to 3-1/2	3

*For improved control of annual grasses and volunteer small grains, add as per labeling.

alachlor Recropping Restrictions: Soybeans or field corn may be replanted within 4 months, after 4 months, see "Replanting."

or metolachlor Soybeans or field corn may be replanted within 4 months for rotation crops, see "Replanting" and follow instructions on metolachlor label. Do not graze or feed forage from treated areas to livestock.

or oryzalin Do not use treated vines for feed or forage. Soybeans may be replanted within 4 months, after 4 months, see "Replanting" and do not plant potatoes within 12 months.

For control of black nightshade apply with paraquat or glyphosate as shown below.

Soil Texture	Product Per Acre	
	1 to 3% Organic Matter LINURON DF (lbs)	alachlor (lbs)
Coarse Sandy loam	3/4 to 1-1/2	2
Medium Loam, Silt loam, Silt Sandy clay, Sandy clay loam	1 to 2	2-1/2 to 3
Fine Silty clay, Silty clay loam, Clay, Clay loam	1 1/4 to 2 1/4	3

Replanting: Soybeans or field corn may be replanted within 4 months, after 4 months, see "Replanting."

Paraquat combinations: Select and tank mix in water one of the above treatments, then add 1 to 2 pints paraquat (2 lbs active per gal) per acre for control of emerged weeds. Use the higher rate for weeds 4" to 6" tall. As the last ingredient, add 1/2 pint Surf-Ac 820 or other spreader per 100 gals of spray mixture. Maintain constant agitation. Use 20 to 60 gals of water per acre. Use the higher gallonage for dense stubble or vegetation.

Glyphosate combinations: Select and tank mix one of the above treatments. As last ingredient, add 1 1/4 quarts of glyphosate per acre for control of emerged annual weeds or 2 to 4 quarts per acre for control of emerged perennial and annual weeds. Use 20 to 30 gals of water per acre.

LINURON DF + Bronco: Do not add paraquat or glyphosate to this combination. Mix LINURON DF with water in the spray tank as directed on the package label and then add Bronco to the dilute mix. Maintain constant agitation. Use 20 to 30 gals water per acre.

Soil Texture	Product Per Acre
	1/2 to 5% Organic Matter
Coarse Sandy loam	3/4 to 2 + 3 1/4 to 6
Medium Loam, Silt loam, Silt, Sandy clay loam	1-1/8 to 2 1/2 + 3 1/4 to 6
Fine Silty clay, Silty clay loam, clay Clay loam	1-1/4 to 3 + 4 to 5

(a) Do not use on soils with less than 1% organic matter nor on sand, loamy sand, or muck soils as crop injury may result.

(b) Use the higher rate for dense stubble, heavy crop residue, or heavy weed population.

Replanting Soybeans: If initial seeding fails to produce a stand, treated fields may be replanted to soybeans, do not rework soil, do not retreat field with a second application as injury to the crop may result. Do not replant treated areas to any crop other than soybeans within four months after treatment as injury to subsequent crops may result. See "Replanting."

SOYBEANS--CONVENTIONAL OR MINIMUM OR NO-TILLAGE

Directed Postemergence application: Apply LINURON DF alone or as a tank mixture with 2,4-DB, as 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 ("X" series or equivalent) per middle mounted on an airing shoe or gauge wheel. For band treatment, use two nozzles per row mounted on an airing shoe 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 nozzles tips smaller than 8002 T-Jet (or equivalent) and do not spray under windy conditions. Add 1 pint Surf-Ac 820 for each 25 gals spray mixture. For best results, use a preemergence treatment (such as LINURON DF) 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 more than 2 lbs LINURON DF per acre per season for postemergence treatments. Do not apply within 60 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. See "Replanting." Do not reenter treated areas for 24 hours following application unless protective clothing is worn.

LINURON DF Alone-- For soybeans at least 8" high and when weeds do not exceed 2" in height, apply 1/2 to 1 lb per acre. Make a second application at same rate if new flush of weeds occur.

For soybeans at least 12" high and when weeds do not exceed 4" in height, make a single application of 1 to 2 lb per acre. Alternatively, make a split application of 1 lb per acre followed by a second application at the same rate after 1 week or later.

LINURON DF + 2,4-DB-- For soybeans at least 8" high and when weeds do not exceed 4" in height, apply 1 lb LINURON DF plus 1/5 lb 2,4-DB (13 fl oz "Butyrac" 200 or 1 pint "butoxone") per acre. A second application may be made if needed, but do not make more than 2 applications per season.

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 lbs LINURON DF 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 Surf-Ac 820 at rate of 2 qts 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. Do not reenter treated areas for 24 hours following application unless protective clothing is worn.

*Registered trademark of Monsanto Company, Bronco contains 2.6 lbs alachlor and 1.04 lbs glyphosate per gal.
 †Registered trademark of Westvaco Corporation.
 ‡Registered trademark of ICI United States, Inc.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal.

STORAGE INSTRUCTIONS

Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from heat of kitchen source. Avoid storage at high temperatures. Do not stack over 2 pallets high. Move containers by handling of cases. Do not move containers from one area to another unless they are securely sealed. Keep containers tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed, and fertilizer to avoid contamination. Avoid contamination with acids or alkalis. Store in original containers only. If the contents are leaking or material is spilled, follow these steps:

1. Contain spill, absorb with a material such as saw dust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with water and soap to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Place a leaking container in a plastic tub and transfer contents as soon as possible to an empty original container.
6. Do not allow run off to enter sewer or contaminate water supplies.
7. Dispose of waste as indicated below.

PESTICIDE DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved disposal facility.

CONTAINER DISPOSAL:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY--CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and soil conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material; not in strict accordance with directions given herewith, in no case shall Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale and is accepted as such by the Buyer.

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