m 25 524-422 page 1225

FREEDOM®
HERBICIDE by MONSANTO

Emulsifiable herbicide for weed control in soybeans only.

### RESTRICTED USE PESTICIDE

due to oncogenicity. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

The use of this product may be hazardous to your health. This product contains alachlor which has been determined to cause tumors in laboratory animals.

In case of an emergency involving this product or for user safety information on this product, call collect, day or night (314) 694-4000.

EPA Reg. No. 524-422

## Complete Directions for Use

®Freedom is a registered trademark of Monsanto Company.

<del>1990-1</del>	<del>843.31-000.07/53</del>
1992-1	<b>843.31-000.08/5</b> 3

Read the entire label before using this product.

Use only according to label instructions.

Read ''LIMIT OF WARKANTY AND LIABILITY'' before buying or using. If terms are not acceptable, return at once uncpened.

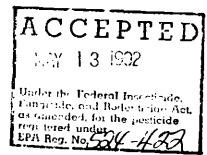
REFORMULATION IS PROHIBITED.

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#### LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet (''Directions'') when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based on contract, negligence, strict liability, other tort or otherwise.



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Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR H. DLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

#### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children. WARNING!

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY.
CAUSES SKIN IRRITATION.
HARMFUL IF SWALLOWED.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

Do not get in eyes, on skin or on clothing.

Avoid breathing vapors or spray mist.

Wear goggles or face shield, rubber gloves, long trousers, long-sleeved shirt or jacket of tightly woven material along with boots (waterproofed) high enough to cover ankles when transferring and mixing, and when adjusting, repairing or cleaning equipment. Wear rubber boots when pouring from open containers or when reentry is made into fields following application when the field is still wet. Clothing which comes in contact with this product must be washed before reuse. Clothing or other materials which become drenched

with the concentrated pesticide must be disposed of in a sanitary landfill, by incineration or, if allowed by state and local authorities, by burning.

If burned, stay out of smoke. Wash thoroughly with soap and water after handling.

FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SkIN, immediately flush with plenty of water while removing contaminated clothing. As soon as soap is available, wash skin thoroughly with soap and water. Wash clothing before reuse. Sensitized persons should avoid further contact and reuse of contaminated clothing. Get medical attention.

IF SWALLOWED, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink do NOT induce vomiting. Give large quantities of water. Avoid alcohol. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove individual to fresh air. Get medical attention if breathing difficulty develops.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-1000.

## Environmental Hazards

This product contains alachlor which has been identified in limited ground water sampling and there is the possibility that it can leach through the soil to ground water especially where soils are coarse and ground water is near the surface. Following application, and during rainfall events that cause runoff, this chemical may reach surface water bodies including streams, rivers, and reservoirs.

Care must be taken when using this product to prevent backsiphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Check valves or antisiphoning devices must be used on all mixing equipment. Disposal of excess pesticide, spray mixtures, or rinsate should be according to label use instructions or according to the state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office.

Do not apply directly to water or wetlands. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

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## Physical or Chemical Hazards

### In case of:

SPILL or LEAK, soak up, remove and keep away from humans and domestic animals.

### ACTIVE INGREDIENTS: \*

Alachlor	31.7%
Trifluralin	3.9%
INERT INGREDIENTS:	64.4%
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Contains petroleum distillates.

\*Contains 320 grams/litre or 2.67 pounds/gallon of 2-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide and 40 grams/litre or 0.33 pound/gallon of  $(\alpha,\alpha,\alpha$ -trifluoro-2,6-dinitro-N, N-dipropyl p-toluidine).

### DIRECTIONS FOR USE

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

### Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

### STORAGE:

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STORE ABOVE 32°F TO KEEP PRODUCT IN SOLUTION.

Below 32°F crystals may form and settle to the bottom. If crystals form, place in a warm room and roll and/or shake the container frequently to redissolve before using. For bulk containers, see the container label for alternate storage information.

### DISPOSAL:

Wastes of this pesticide may cause eye irritation and may be dangerous. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label use instructions, cortact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.

(See the individual container label for disposal information.)

### GENERAL INFORMATION

This product is recommended for the control and to reduce competition of annual grasses and broadleaf weeds listed in the ''WEEDS CONTROLLED'' section of this label. Apply this product and shallowly incorporate prior to planting to blend the herbicide into the upper 1 to 2 inches of soil.

Performance is often improved when sufficient rainfall or irrigation occurs to moisten the soil within the weed germination zone. If adequate moisture is not received prior to weed emergence, then shallow cultivation is recommended. Refer to the ''APPLICATION AND TIMING METHODS'' section of this label for details.

Read and carefully observe the precautionary statements and all other information appearing on the labels of all products used in mixtures and sequential treatments.

Do not flood irrigate following application of this product or tank mixtures.

Do not apply when conditions favor drift. Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

Drain and thoroughly flush sprayer with clean water after use and also prior to utilizing spray equipment for treating crops other than soybeans.

Do not graze treated area or feed treated soybean forage, hay or straw to livestock following application.

### SOIL TEXTURE

Applicators should evaluate soil and weed conditions carefully to assure that they choose the lowest effective label rate.

The recommended use rates of this product and the other herbicides labeled for use in tank mixtures with this product generally vary with soil texture. Unless soil texture is specifically named, rate tables throughout this label refer to only three soil textural groups: coarse, medium and fine. The following is a complete listing of soil textures included in each of these three soil textural groups:

SOIL TEXTURAL GROUP	SOIL TEXTURE
COARSE	sand, loamy sand, sandy loam
MEDIUM	loam, silt loam, silt, sandy clay loam
FINE	silty clay loam, clay loam, sandy clay, silty clay, clay

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- Place a 20 to 35 mesh screen or wetting basket over filling bort.
- 2. Through the screen, fill the sprayer tank one-half full with the appropriate carrier.
- 3. If a compatibility agent is necessary to improve mixing, or to prevent the formation of undesirable and unsprayable gels or precipitates, while agitating, add it to the carrier already in the tank. Use only compatibility agents cleared by FDA for this use. Read and follow all directions for use, cautionary statements and all other information appearing on the selected compatibility agent label. Check for adequate agitation.
- 4. If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Continue agitation.
- 5. If a flowable formulation is used, add slowly through the screen into the tank. Mixing and compatibility may be improved when flowable is premixed one part flowable with one part water and added to the tank in diluted form.
- 6. Add Freedom herbicide slowly through the screen into the tank. Mixing and compatibility may be improved when this product is prediluted with two parts of water and added to the tank in diluted form.
- 7. Complete filling the sprayer tank with carrier. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source.

Maintain good agitation at all times until the contents of the tank are sprayed. NOTE: If spray mixture is allowed to settle at any time, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select the correct nozzle to avoid spraying a fine mist. Check for even distribution of spray droplets. To reduce loss of chemical due to drift of a fine mist, apply at nozzle pressures below 40 psi.

### STANDARD SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST

Herbicides may not always mix evenly throughout a spravable fluid fertilizer or the components may separate too quickly to make their combined use of practical value. This may be due to certain characteristics of the different fluid fertilizers. A simple test using small quantities of the components is suggested to determine compatibility potential.

The test follows:

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## A. Materials Required For A Compatibility Test

- 1. Two one-quart jars with lid or stopper (marked ''with'' and ''without'').
- TEAspoon (for a more exacting test, a five to ten milliliter (ml) pipette or graduated cylinder is desirable).
- 3. Sprayable fluid fertilizer to be tested.
- 4. The herbicides to be mixed.
- 5. A compatibility agent (the purpose of the adjuvant is to help keep the fertilizer and crop protection chemical in suspension, if this assistance is needed).

### B. Procedure

1. Add one pint of the sprayable fluid fertilizer that will be used or other herbicide carrier to each jar marked ''with'' and ''without''.

## Add One Pint Liquid Fertilizer To Two Quart Jars

WITH

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WITHOUT

2. To the jar marked ''with'', add 1/4 TEAspoon or 1.2 milliliters of a suitable compatibility agent, shake gently for five to ten seconds to mix (1/4 TEAspoon in one pint is the equivalent of two pints per 100 gallons of liquid fertilizer).

To Jar Marked ''With''
Add Compatibility Agent
And Shake To Mix

WITH

WITHOUT

3. To each jar add the appropriate amount of herbicide(s) listed on the following tables. If more than one is used, add them separately with the wettable powders or dry flowables added first, flowables second and liquid last. Shake gently five to ten seconds after each addition.

Add Herbicide(s) To Both Jars
And Shake To Mix

WITH

WITHOUT

Amount To Be
Added Per Pint Of
Sprayable Fluid Fertilizer
(Assuming Volume is 25 gal/a)

Rate/A		Level TEAspoons	
1 lb	=	1.5	
3 lb	=	4.5	
	1 lb 2 lb	1 lb = 2 lb = 3 lb =	Rate/A TEAspoons  1 lb = 1.5 2 lb = 3 3 lb = 4.5

Herbicide	Rate/A	Level Rate/A TEAspoons			Milliters		
Emulsifiable 1 pint = 0.5 Concentrates or	or 1 quart	2.4	1	or	4.7		
Flowables or Liquids or Solutions	2 quarts 3 quarts 1 gallon 5 quarts	= =	2 3 4 5	or or or or	9.5 14.2 19.0 23.8		

The compatibility test is designed for 25 gallens of spray per acre. For changes in spray volume or herbicide rate, make appropriate changes in the ingredients of the test. Regardless of spray volume, the amount of compatibility agent should be equal to two or three pints (two pints = 1/4 TEAspoon or 1.2 milliliters, three pints = 3/8 TEAspoon or 1.8 milliliters per pint of sprayable fluid fertilizer) per 100 gallons of liquid fertilizer.

### C. Observations and Decisions

- 1. If the herbicide(s) and the sprayable fluid fertilizer are compatible.
- 2. If a compatibility agent is necessary.

Five minutes after the final addition and mixing, observe both jars for the formation of large flakes, sludge, gels or other precipitates. Observe if the herbicide(s) cannot be physically mixed with the liquid fertilizer but remains as small oily particles in the solution.

If incompatibility in any form described above occurs in the jar ''with'' the compatibility agent added, the liquid fertilizer and the herbicide(s) should not be used together in the same spray tank.

If incompatibility as described above occurs in the jar ''without'' the adjuvant but not in the jar ''with'' adjuvant, the use of a compatibility adjuvant is recommended.

Both jars should be allowed to stand and be observed periodically for one-half hour. If the separate layers of liquid fertilizer and additives can be resuspended by shaking, commercial application is possible. An emulsifiable concentrate normally will go to the top after standing, wettable powders will either settle to the bottom of the tank or jar, or float to the top, depending upon the density of the fertilizers.

If the herbicide(s) is compatible with fluid fertilizer in the foregoing test without using a compatibility agent, fluid fertilizer may be used for premixing. If it is not compatible

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without the compatibility agent, the herbicide(s) should be premixed with water before adding to the spray tank.

### APPLICATION INFORMATION

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

### APPLICATION SYSTEMS

Ground Broadcast Treatment—Apply this product and the labeled tank mixtures in 10 or more gallons of solution per acre using broadcast boom equipment. The carrier may be either water or sprayable fluid fertilizer. Do not apply during periods of gusty winds, when winds are in an excess of 15 mph or when other conditions favoring drift exist.

Aerial-rixed wing; helicopter-Apply the recommended rates of this product or approved tank mixtures in 3 to 10 gallons of water per acre. AVOID DRIFT-DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW DRIFT. Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray or fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure. Ensure uniform application. To avoid streaked, uneven or overlapped application, use mechanical marking systems only. HUMAN FLAGGERS PROHIBITED!

Application with Dry Bulk Fertilizer—The herbicide—dry fertilizer impregnation process (In-Plant and On-Board systems) must be completed only by commercial fertilizer or chemical dealerships properly equipped for this procedure. Contact Monsanto Company for additional information regarding recommended equipment and methods for herbicide—fertilizer impregnation applications.

Dry bulk fertilizer may be impregnated with this product or the tank mixtures of this product plus Lexone<sup>TM</sup> or Sencor<sup>TM</sup>. Freedom herbicide and these tank mixtures must be applied with 200 to 450 pounds of dry bulk fertilizer per acre and shallowly incorporated within 7 days prior to planting. The correct amount of herbicide must be applied per acre in the blend recommended in this label for the crop selected and weed species to be controlled.

The following table provides a reference to determine the amount of LIQUID herbicide to be mixed per ton of dry bulk fertilizer for a range of herbicide recommendations and fertilizer rates per acre.

### RECOMMENDED QUARTS LIQUID HERBICIDE/ACRE

Fertilizer Rate (lb/a)	Acres Covered (per ton)		3.5 s of heroicid y bulk fertil		
200	10	30	35	40	
250	8	24	28	32	

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300	6.7	20	23.3	26.6	
350	5 <b>.7</b>	17.1	20	22.8	
400	5	15	17.5	20	
450	4.5	13.3	15.6	17.8	

To determine the amount of herbicide needed for rates not included in the preceding table, use the following formula:

	pounds or
Recommended herbicide rate	quarts of herbicide
(lb or qt/acre x 2000	<pre>= per ton of</pre>
pounds fertilizer/acre	dry bulk
	fertilizer

With In-Plant systems, mix and blend the dry fertilizer and herbicide mixture in a closed rotary drum-type mixer, allowing sufficient time to ensure uniform coverage. Use at least one ton of dry fertilizer per mixing operation. Inject the herbicide into the drum over a minimum of a 2-minute period and allow at least 2 additional minutes mixing time to ensure uniformity. The nozzle used to spray the herbicide treatment must be placed inside the mixer to provide unif .m spray coverage of the tumbling fertilizer.

If the dry fertilizer used has inadequate adsorptive capacity, a highly adsorptive material such as Agsorb<sup>TM</sup>, MP-79<sup>TM</sup>, or Microcel<sup>TM</sup> E can be added to provide a free-flowing mixture. Contact Monsanto Company for specific guidelines with regard to the sequence of addition for the various components and the amount of drying agent to add to provide a free-flowing mixture. The adsorptive material and dry fertilizer should be thoroughly mixed prior to adding liquid herbicide. Generally the drying material weight is no more than 2 to 4 percent of the total weight of the dry fertilizer. The following dry fertilizers may be impregnated with this product or tank mixtures of this product with Sencor or Lexone: ammonium sulfate, ammonium phosphate-sulfate, diammonium phosphate, potassium chloride, single super-phosphate, treble super-phosphate and urea.

NOTE: DO NOT impregnate this product or tank mixtures of this product with other herbicides on fertilizers containing ammonium nitrate, potassium nitrate or sodium nitrate.

 $<sup>^{</sup> extsf{TM}}$ Agsorb is a trademark of Oil Dri Corporation.

TMLexone is a trademark of E. I. du Pont de Nemours and Company.

TMMicrocel is a trademark of Manville Products Corporation.

TMMP-79 is a trademark of Eagle-Pitcher Industries, Inc.

TMSencor is a trademark of the parent company of Farbenfabriken Bayer Gmbh.

Spread the dry fertilizer-herbicide mixture uniformly with an adequately calibrated dribble, pneumatic (air flow) or spin applicator. When using spin applicators, the herbicide-dry fertilizer mixture must be spread uniformly. Nonuniform spreading of the dry fertilizer/herbicide mixture may result in unsatisfactory weed control or crop injury.

#### APPLICATION TIMING AND METHODS

Preplant Incorporation—This product and the labeled tank mixtures may be mixed into the soil using shallow incorporation equipment any time within 7 14 days prior to planting. Apply the recommended treatment rate to the soil surface as a broadcast application and shallowly incorporate into the upper 2 inches of soil within 24 hours after application. If weeds emerge after treatment, rotary hoe or shallowly cultivate immediately to improve performance.

1-Pass Incorporation (Surface Blend<sup>TM</sup>): Shallowly incorporate (Surface Blend) the treatment into the upper 1 to 2 inches of the soil. Equipment should be operated at manufacturer's designated speed for incorporation to ensure adequate mixing and distribution of the herbicide treatment in the soil. Equipment design, including any drag attachments, must be adequate to avoid soil ridging which may result in streaked or reduced weed control. Soil conditions, including moisture content and crop residue levels, must be suitable to allow thorough and uniform mixing with the equipment used for 1-pass incorporation.

Contact Monsanto Company for additional information regarding recommended equipment and methods for Surface Blend application.

2-Pass Incorporation: When 2-pass incorporation is used, shallowly incorporate the herbicide treatment into the upper 1 to 2 inches of the soil with equipment set to work the soil NO DEEPER THAN 4 INCHES. The second pass must be made at an angle and no deeper than the first pass to ensure uniform distribution of the herbicide treatment in the soil.

Cultivation Information—Delay cultivation after application for as long as possible unless weeds or grasses emerge. Shallowly cultivate or rotary hoe immediately if weeds or grasses emerge. If cultivation is necessary because of soil crusting or compaction, set equipment shallow and minimize lateral soil movement to avoid dilution or displacement of the herbicide treatment.

TMSurface Blend is a trademark of Monsanto Company.

### WEEDS CONTROLLED

Applicators should evaluate soil and weed conditions carefully to assure that they choose the lowest effective label rate. When applied as directed under conditions described, this product and tank mixtures of this product will control or reduce competition from the weeds listed.

C = Control

R = Reduced Competition

Freedom TM  Freedom + Canopy TM  Freedom + Command TM  Freedom + Preview TM	5 6 7	Freedom + Pursuit <sup>TM</sup> Freedom + Scepter <sup>TM</sup> Freedom + Sencor <sup>TM</sup> /1			Lexone <sup>TM</sup>				
		1	2	3	4	5	6	7	
ANNUAL GRASSES									
Barnyardgrass		c	C	С	С	С	С	С	
Crabgrass: hairy, smooth		С	С	С	С	С	С	С	
Cupgrass, woolly1		R	R	R	R	R	R	R	
Foxtail: giant, green, robust purple, robust white, yellow		С	С	С	С	С	С	C	
Goosegrass		С	С	С	С	С	С	С	
Johnsongrass, seedling <sup>2</sup>		R	R	R	R	С	С	R	
Panicum: browntop, fall		С	С	С	С	С	С	С	
Panicum, Texas <sup>3</sup>		R	R	R	R	R	R	R	
Rice, red <sup>4</sup>		С	С	С	С	С	С	С	
Sandbur, Grassbur <sup>2</sup>		R	R	R	R	R	R	R	
Shattercane, wild cane1		R	R	R	R	R	R	R	
Signalgrass, broadleaf		С	С	C	С	С	С	С	
Sprangletop, red		С	С	С	С	С	С	С	
Witchgrass		С	_c	С	С	С	С	С_	
		1	2	3	4	5	6	7	
ANNUAL BROADLEAVES									
Beggarweed, Florida <sup>2</sup>			R	С	•	R	•	•	С
Carpetweed		С	С	С	С	С	С	С	
Cocklebur		•	С	•	С	С	С	R	
Coffeeweed: hemp sesbania		•	С	•	С	•	•	•	
Copperleaf, hophornbeam		•	С	•	С	•	•	•	
Galinsoga		С	С	С	С	С	С	С	
(Freedom 1990-1 Revised)		13							

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Groundcherry, annual	•	С	•	С	С	С	C	1	
Groundcherry, cutleaf <sup>5</sup>	С	С	С	С	С	С	С		
Jimsonweed	•	С	С	С	С	С	R		
Kochia	•	С	С	С	c	С	С		
Lambsquarters <sup>5</sup>	R	С	С	C	C	С	С		
Morningglory: Tall, ivyleaf, entireleaf, pitted Smallflower	• • R	CCC	•	R R	R R C	R C C	•		
Mustard	•	С	•	C	C	С	•		
Nightshade: eastern black <sup>4</sup> , hairy <sup>4</sup>		С	С	С	c	С	С	С	
Pigweed, Carelessweed	С	e	С	С	С	С	С		
Purslane	С	С	С	С	C	С	С		
Fusley, Florida	С	C	С	С	С	С	С		
Ragweed, common <sup>5</sup>		R	Ċ	С	С	R	C	C	
Ragweed, giant	•	R	•	R	R	R	•		
Sicklepod	•	С	•	c	•	R	R		
Sida, prickly; Teaweed <sup>5</sup>	R	С	С	С	c	С	•		
Smartweec <sup>5</sup>	R	С	R	С	С	С	С		
Starbur, bristly	R	С	•	•	•	С	C		
Sunflower, common	•	R	•	R	С	С	•		
Velvetleaf; Buttonweed	•	С	С	С	С	С	R		
Waterhemp	С	С	С	С	С	С	С		
SEDGE									
Nutsedge, yellow <sup>4</sup>	С	С	С	С	С	С	С		_

 $<sup>^{\</sup>text{TM}}$ Canopy and Preview are trademarks of E. I. du Pont de Nemours

and Company.

TMCommand is a trademark of FMC Corporation.

TMPursuit and Scepter are trademarks of American Cyanamid Company.

<sup>1</sup> Apply 5 to 5.5 4.5 quarts of this product per acre alone or in tank mixture on this weed.

- <sup>2</sup> Apply 1 to 5 4.5 quarts of this product per acre alone or in tank mixture on this weed.
- 3 Apply 4.5 quarts of this product per acre, followed by sprinkler irrigation if rainfall is not expected.
- <sup>4</sup> Apply 4.5 to 5.5 quarts of this product per sore alone or in tank mixture on this weed. When tank mixed with Pursuit or Scepter, use 3 to 4 quarts of this product per acre.
- 5 Apply 4 to 5 4.5 quarts of this product per acre when used alone on this weed.

For scientific names for the weeds listed above, refer to the appendix at the end of this booklet.

### SOYBEANS

Do not make more than one application per year or exceed a total of 4.5 quarts of Freedom per acre per year.

Do not fued forage, hay or straw from soybeans treated with this product or tank mixtures of this product. Do not ensile soybeans treated with this product.

### FREEDOMTM

Apply this product in water or sprayable fluid fertilizer solution for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the ''WEEDS CONTROLLED'' section of this label.

APPROVED APPLICATION SYSTEMS

Ground-Broadcast boom

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Aerial-Fixed wing; helicopter

Dry Bulk Fertilizer Impregnation

Reference: The ''APPLICATION SYSTEMS'' section of this label provides detailed information on the application of this product using the system selected.

RECOMMENDED RATES: Refer to the following table for the recommended rates for this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control or crop injury.

	BROADCAST RATE PE	ER ACRE (QUARTS) **	
TEXTURAL GROUP*	Less than 3% organic matter	3% or more organic matter	
Coarse	3.5 to 4	3.5 to 4	
Medium	3.5 to 4.5	3.5 to 4.5	
Fine	4 to 4.5	4.5 <del>to-5</del>	

- \* Refer to the ''SOIL TEXTURE'' section of this label to determine the corresponding soil textural group for the soil to be treated.
- \*\* Use the higher rate in the recommended range in areas of heavy weed infestations. Use a minimum of 4.5 quarts per acre on coarse textured soils for control of yellow nutsedge or red rice. Rates should be increased to a maximum of 5.5 quarts on medium and fine soils when yellow nutsedge or red rice is present.

## FREEDOMTM plus CANOPY TANK MIXTURE

Apply this tank mixture in water or sprayable fluid fertilizer solution for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the ''WEEDS CONTROLLED'' section of this label.

NOTE: Observe all precautions and limitations on the labels for Freedom and Canopy herbicides, including precautions on soil pH, sensitive soybean varieties, minimum recropping interval and rotational guidelines.

DO NOT plant rice or peanuts within 18 months after application of this tank mixture.

### APPROVED APPLICATION SYSTEM

Ground-Broadcast boom

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Reference: The ''APPLICATION SYSTEMS'' section of the label provides detailed information on the application of this tank mixture using the system selected.

RECOMMENDED RATES: Refer to the following table for the recommended broadcast treatment rates for this tank mixture. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control or crop injury.

## BROADCAST RATES PER ACRE\*\*

	1/2 to 3% organic matter		3 to 5% organic mate	ter
SOIL TEXTURAL Canopy	Freedom <sup>TM</sup> ® +	Canopy	Freedom	+
GROUP*	(quarts) (ou	nces)	(quarts)	(ounces)
Coarse-loamy	sand, sandy			
loam only	2.75 to 3.5	6	3 to 3.5	8
Medium*** Fine	2.75 to 3.5	8	3.5 to 4	10
3.5 to 4	10 3.5	to 4.5	12	

- \* Refer to the ''SOIL TEXTURE'' section if this label to determine the corresponding soil textural group for the soil to be treated. DO NOT APPLY TO SOIL WITH LESS THAN 1/2% organic matter.
- \*\* Use the higher rate of Freedom herbicide in the recommended ranges in areas of heavy grass infestations, heavy crop residue or when broadleaf signalgrass is present. See ''WEEDS CONTROLLED'' section of this label for specific rate recommendations on seedling johnsongrass, red rice and yellow nutsedge.
- \*\*\* On medium soils in southeast KS, southwest MO and northeast OK on soils with 1/2 to 3% organic matter, use 5 to 6 ounces Canopy per acre. On silt loam soils in TN and KY, use 6 to 8 ounces of Canopy per acre.

NOTE: In the states of TA, IL, KS, MO, MN, NE, OK and WI on soils with 1/2 to 4% organic matter, reduced rates of Canopy are recommended for broadleaf weed control. Use 5 ounces of Canopy per acre on coarse soils (loamy sand and sandy loam only); 6 ounces on medium soils; and 6 to 7 ounces on fine soils. Do not apply to soils with greater than 6.8 pH or to soils with less than 1/2% organic matter or greater than 4% organic matter.

For improved control of heavy velvetleaf infestations, add 1/2 pint of Command herbicide per acre to this tank mixture.

Observe all precautions and limitations on the labels for Cancpy and Command before using this tank mixture.

# FREEDOMTM plus COMMAND TANK MIXTURE

Apply this tank mixture in water or sprayable fluid fertilizer solution for control of yellow nutsedge and the annual grasses and

broadleaf weeds listed in the ''WEEDS CONTROLLED'' section of this label.

NOTE: Observe all precautions and limitations on the labels for Freedom and Command herbicides before using this tank mixture.

### APPROVED APPLICATION SYSTEMS

Ground-Broadcast boom

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Reference: The ''APPLICATION SYSTEMS'' section of this label provides detailed information on the application of this tank mixture using the system selected.

RECOMMENDED RATES: Apply 3 to 3.5 quarts of Freedom herbicide plus 1 pint of Command 4E per acre. In areas of heavy pigweed and lambsquarter infestations, use 3.5 to 4 quarts of Freedom per acre in the tank mixture.

FREEDOM<sup>TM</sup> plus LEXONE or

## FREEDOM plus SENCOR TANK MIXTURES

Apply this tank mixture in water or sprayable fluid fertilizer solution for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the ''WEEDS CONTROLLED'' section of this label.

NOTE: DO NOT use on muck soils or on alkaline soils with greater than 7.4 pH. Crop injury may result if atrazine was applied the year preceding use of this tank mixture.

Observe all precautions and limitations on the labels for Freedom, Lexone and Sencor herbicides before using this tank mixture.

DO NOT REPLANT CROPS OTHER THAN SOYBEANS FOR 120 DAYS AFTER APPLICATION OF THESE TANK MIXTURES.

### APPROVED APPLICATION SYSTEMS

Ground-Broadcast boom

Aerial-Fixed wing helicopter

Dry Bulk Fertilizer Impregnation

Reference: The ''APPLICATION SYSTEMS'' section of this label provides detailed information on the application of this tank mixture using the system selected.

RECOMMENDED RATES: Refer to the following table for the recommended broadcast treatment rates for this tank mixture. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control or crop injury.

	Less than 3% organic matter		3% or more organic matter	
SOIL TEXTURAL 4L**	Lexone 4L** or Freedom + Sencor 4L**		Le Freedom	exone 4L** or + Sencor
GROUP*	(quarts)	(pint)	(quarts)	(pint)
Coarse-Sand Loam Only Medium Fine	ly 2.75 to 3.5 2.75 to 3.5 3.5 to 4	0.5 0.5 to 0.75 0.75 to 1	3 to 3.5 3.5 to 4 3.5 to 4.5	0.75 0.75 1

- \* Refer to the ''SOIL TEXTURE'' section of this label to determine the corresponding soil textural group for the soil to be treated.
- \*\* Use the rates listed in this label when using Lexone 4L or Sencor 4F. Use the equivalent rates when using the 50WP or DF formulations of these products. One pint of Lexone 4L or Sencor 4F equals one pound of the corresponding 50WP formulation or 2/3 pound of the corresponding DF formulation.

NOTE: DO NOT use on sand or loamy sand soil. Use 1.5 pints of Lexone 4L or Sencor 4F per acre in this tank mixture when applying on heavy clay soils of the Mississippi Delta. Use a minimum of 4.5 to 5.5 quarts of Freedom herbicide in this tank mixture on medium or fine textured soils to control black or hairy nightshade.

For improved control of heavy velvetleaf infestations, add 1/2 pint of Command herbicide per acre to this tank mixture.

Observe all precautions and limitations on the labels for Lexone, Sencor and Command before using these tank mixtures.

## FREEDOMTA plus PREVIEW TANK MIXTURE

Apply this tank mixture in water or sprayable fluid fertilizer solution for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the ''WEEDS CONTROLLED'' section of this label.

NOTE: Observe all precautions and limitations on the labels for Freedom and Preview, including precautions on soil pH, sensitive soybean varieties, minimum recropping interval and rotational guidelines.

### APPROVED APPLICATION SYSTEMS

Ground-Broadcast boom

Reference: The ''APPLICATION SYSTEMS'' section of the label provides detailed information on the application of this tank mixture using the system selected.

RECOMMENDED RATES: Refer to the following table for the recommended broadcast treatment rates for this tank mixture. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control or crop injury.

	BRO	ADCAST RATES	PER ACRE**	
	1/2 to 3% organic matter		3 to 5% organic matter	
SOIL TEXTURAL GROUP*	Freedom® + Preview (quarts) (ounces)			Preview (ounces)
Coarse-Sandy				
Loam Only	2.75 to 3.5	6	3 to 3.5	7
Medium	2.75 to 3.5	7	3.5 to 4	8
Fine	3.5 to 4	8	3.5 to 4.5	9

- \* Refer to the ''SOIL TEXTURE'' section of this label to determine the corresponding soil textural group for the soil to be treated. DO NOT APPLY TO SOIL WITH LESS THAN 1/2% organic matter.
- \*\* Use the higher rate of Freedom herbicide in the recommended ranges in areas of heavy grass infestations, heavy crop residue or when broadleaf signalgrass is present. See ''WEEDS CONTROLLED'' section of this label for specific rate recommendations on seedling johnsongrass, red rice and yellow nutsedge.

For improved control of heavy velvetleaf infestations, add 1/2 pint of Command herbicide per acre to this tank mixture.

Observe all precautions and limitations on the labels for Preview and Command before using this tank mixture.

## FREEDOMTM plus PURSUIT TANK MIXTURE

Apply this tank mixture in water or sprayable fluid fertilizer solution for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the ''WEEDS CONTROLLED'' section of this label.

Note: Observe all precautions and limitations on the labels for Freedom and Pursuit herbicides before using this tank mixture including precautions on minimum recropping interval and rotational guidelines.

### APPROVED APPLICATION SYSTEMS

Ground-Broadcast boom

Aerial-Fixed wing; helicopter

Reference: The ''APPLICATION SYSTEMS'' section of this label provides detailed information on the application of this tank mixture using the system selected.

RECOMMENDED RATES: Refer to the following table for the recommended broadcast treatment rates for this tank mixture. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control or crop injury. See the ''WEEDS CONTROLLED'' section of this label for recommended rates and application methods for control of certain weeds.

### BROADCAST RATES PER ACRE\*\*

SOIL TEXTURAL GROUP*	Less than 3% organic matter	3% or more organic matter	
	Freedom® (quarts)	Freedom (quarts)	Pursuit (ounces)
Coarse	2.5 to 3	2.5 to 3	4
Medium	2.5 to 3	2.75 to 3.25	4
Fine	2.75 to 3.25	3 to 3.5	4

- \* Refer to the ''SOIL TEXTURE'' section of this label to determine the corresponding soil textural group for the soil to be treated.
- \*\* Use the higher rate of Freedom herbicide in the recommended ranges in areas of heavy grass infestations, heavy crop residue or when the following weeds are present: fall panicum, barnyardgrass, broadleaf signalgrass, seedling johnsongrass, red rice or yellow nutsedge.

## FREEDOM Plus SCEPTER TANK MIXTURE

Apply this tank mixture in water or sprayable fluid fertilizer solution for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the ''WEEDS CONTROLLED'' section of this label.

Note: Observe all precautions and limitations on the labels for Freedom and Scepter herbicides before using this tank mixture including precautions on minimum recropping interval and rotational guidelines.

### APPROVED APPLICATION SYSTEMS

Ground-Broadcast boom

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Aerial-Fixed wing; helicopter

Reference: The ''APPLICATION SYSTEMS'' section of this label provides detailed information on the application of this tank mixture using the system selected.

RECOMMENDED RATES: Refer to the following table for the recommended broadcast treatment rates for this tank mixture. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control or crop injury. See the ''WEEDS CONTROLLED'' section of this label for recommended rates and application methods for control of certain weeds.

#### BROADCAST RATES PER ACRE\*\*

SOIL TEXTURAL GROUP*	Less than 3% organic matter	3% or more organic matter	
	Freedom <sup>TM</sup> ® (quarts)	Freedom (quarts)	Scepter*** (pints)
Coarse Medium Fine	2.5 to 3 2.5 to 3 2.75 to 3.25	2.5 to 3 2.75 to 3.25 3 to 3.5	1/2 to 2/3 1/2 to 2/3 1/2 to 2/3

- \* Refer to the ''SOIL TEXTURE'' section of this label to determine the corresponding soil textural group for the soil to be treated.
- \*\* Use the higher rate of Freedom nerbicide in the recommended ranges in areas of heavy grass infestations, heavy crop residue or when the following weeds are present: fall panicum, barnyardgrass, broadleaf signalgrass, seedling johnsongrass, red rice or yellow nutsedge.
- \*\*\* Use the higher rates of Scepter in the recommended ranges when red rice, sicklepod, Florida beggarweed or velvetleaf are present.

For improved control of heavy velvetleaf infestations, add 1/2 pint of Command 4E herbicide per acre to this tank mixture.

Observe all precautions and limitations on the labels for Scepter and Command before using these tank mixtures.

### APPENDIX

LIST OF COMMON AND SCIENTIFIC NAME OF ANNUAL GRASSES AND BROADLEAF WEEDS.

### ANNUAL GRASSES

### Barnyardgrass

Echinochloa crus-galli

### Crabgrass:

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Digitaria ischaemum Digitaria sanguinalis Cupgrass, woolly Eriochloa villosa

Foxtail, giant Setaria faberi

Foxtail, green, robust purple, robust white Setaria viridis

Foxtail, yellow Setaria lutescens

Goosegrass
Eleusine indica

Johnsongrass
Sorghum halepense

Panicum, browntop
Panicum fasciculatum

Panicum, fall
Panicum
dichotomiflorum

Panicum, Texas
Panicum texanum

Rice, red Orvza sativa

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Sandbur, Grassbur Cenchrus incertus

Shattercane, wild cane Sorghum bicolor

Signalgrass, broadleaf
Brachiaria platyphylla

Sprangletop, red Leptochloa filiformis

Witchgrass
Panicum capillare

### ANNUAL BROADLEAVES

Beggarweed, Florida Desmodium tortuosum

Carpetweed Mollugo verticillata

Cocklebur
Xanthium strumarium

Coffeeweed

Hemp sesbania Sesbania exaltata

Copperleaf, hophornbeam Acalypha spp.

Galinsoga spp.

Groundcherry, annual Physalis spp.

Groundcherry, cutleaf
Physalis angulata

Jimsonweed
Datura stramonium

Kochia scoparia

Lambsquarters Chenopodium album

Morningglory:
Tall
Ipomoea purpurea

Pitted
Ipomoea lacunosa

Ivyleaf
Ipomoea hederacea

Entireleaf
Ipomoea hederacea
var. intergriuscula

Smallflower

Jacquemontia

tamnifolia

Mustard

Brassica spp.

Nightshade, black Solanum nigrum

Nightshade, hairy Solanum sarrachoides

Pigweed, Carelessweed Amaranthus spp.

Purslane
Portulaca oleracea

Pusley, Florida Richardia scabra

Ragweed, common
Ambrosia artemisifolia

Ragweed, giant
Ambrosia trifida

Sicklepod
Cassia obtusifolia

Sida, prickly; Teaweed Sida spinosa

Smartweed
Polygonum
pensylvanicum
Polygonum persicaria

Starbur, bristly Acanthospermum hispidum

Sunflower, commonn Helianthus annuus

Velvetleaf, Buttonweed Abutilon theophrasti

Waterhemp
Amaranthus
tuberculatos

### SEDGE

Nutsedge, yellow Cyperus esculentus

### STATE REGISTRATIONS

Freedom herbicide has been approved by the U.S. Environmental Protection Agency for the crop, uses and sites listed in this label. This product is registered for use in the following states:

Alabama Arkansas <del>Florida</del> Georgia Illinois Iowa Kansas Kentucky Louisiana
Minnesota
Mississippi
Missouri
Nebraska
North Carolina
North Dakota

Oklahoma
South Carolina
South Dakota
Tennessee
Texas
Virginia
West Virginia
Wisconsin

EPA Reg. No. 524-422

In case of an emergency involving this product, Call\_Collect, day or night, (314) 694-4000.

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