US ENVIRONMENTAL PROTECTIONNCY OFFICE OF PESTICIDES PROGRAMS	EPA REGISTRATION NO.
	56479-2 JUL 2 3 1981
REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	
NATICE OF DESTICIDE. N REGISTRATION	Conditional NAME OF PESTICIDE PRODUCT
NOTICE OF PESTICIDE: TA REGISTRATION	Ipitluor Five EC
(Under the Federal Insecticide, Fungicide, and Rodentivide Act, as amended)	
E AND ADDRESS OF REGISTRANT (Include ZIP code)	
MPH Haudels AG	Г
Burgstrass: 25	
CR-675C Glarus	
Switzerland	BEST AVALLADIC AND
	BEST AVAHABLE COPY
<b>_</b>	
	from that accepted in connection with this registration must be or to use of the label in commerce. In any correspondence on this mber.
he basis of information furnished by the registrant, the Federal Insecticide, Fungicide, and Rodenticide Act.	above named pesticide is hereby Registered/Reregistered under
opy of the labeling accepted in connection with this Re	gistration/Reregistration is returned herewith.
istration is in no wey to be construed as an induscemen	nt or approval of this product by this Agency. In order to protect
	ame in connection with the registration of a product under this
others. Shis product is conditionally re- section 3(c)(7)(A) provided that you.	
others. Shis product is conditionally re- section 3(c)(7)(A) provided that you.	gistered in accordance with 11160 of for registration/reregistration B(c)(5) when the Agency requires all
<ul> <li>Shis product is conditionally reserved.</li> <li>Submit/cite all data require of your product under FIFRA section 3 registrants of similar products to such as the labeling changes like the labeling changes like such as the labeling cha</li></ul>	gistered in accordance with 11160 of for registration/reregistration B(c)(5) when the Agency requires all
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- d. Under the directions for applying this pesticide with liquid fertilizers, add a list of compatibility agents. Specify compatibility agents cleared for application to growing crops.
- e. Under the fall application directions for cotton (Ipifluor alone), note that the use is limited to the southeastern Missouri <u>bootheel</u>, and add the following States: New Mexico, Oklahoma, and South Carolina.
- f. Under Special Application to Cotton (Ipifluor alone), specify that use along the Texas Gulf Coast is limited to the following counties: Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller, and Wharton.
- g. For the Ipifluor/Caparol 80W tank mix for cotton, note that the qualifying statement "Do not use on sand and loamy sand soils" applies only to the 2-pound recommended rate of Caparol on coarse soils. The qualifying statement should also be expanded to state that for band applications, the user should use proportionally less.
- h. For the Ipifluor/Cotoran tank mix for cotton, make the following modification:
  - Under the use directions for Cotoran overlay, specify that the lower recommended application rate should be used on light soil and sandy soils low in organic matter.
- i. For the Ipifluor/Karmex overlay directions for cotton, note that the use is limited to Eastern Texas.
- j. Under the use directions for cucurbits, specify more prominently that the use is limited to the Western United States, including Texas.
- k. Nodify the precautionary text for the Ipifluor/Avadex tank mix on peas to warn against grazing livestock on treated props.
- Under the use directions for soybeans, special applications of Ipifluor alone, make the following modifications:
  - 1) Specify the counties where the product may be used in the Texas Gulf Coast (see f above).
  - 2) In the directions for control of Rhizome Johnsongrass in the Eastern United States note that the application may be made in spring or fall or as a split application.

- m. Under the use directions for sugar beets, special application, add Kansas to the list of States where application is permitted.
- n. Under the use directions for sugarcane, specify that the Plant cane directions are limited to use in the Eastern United States only.
- Under the use directions for trees and vineyards, make the following modifications:
  - Add the following precautionary statement for use directions in the Eastern and Western United States: "If crops are planted between the trees or vines, label directions for those specific crops apply to the area which is interplanted."
  - 2) Under the Rhizome Johnsongrass directions, add the following precautionary statement: "Do not apply to vineyards within 6 months of harvest."
- p. Under the use directions for wheat, we do not understand the Fall Application directions. Do you intend these directions to apply to wheat only, or are they meant to be general Fall Application directions? Trifluralin labels do not contain Fall Application directions for wheat.
- q. Under Special Precautions, add Oklahoma and South Dakota to the list of States where at least 25 inches of irrigation or rainfall was used to produce the crop.
- r. The name and address of the registrant, producer, or firm for which the pesticide was produced must appear on the label.

3. Submit one (1) copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Richard F. Hountfort Product Manager (23) Fungicide-Herbicide Branch Registration Division (TS-767C)

Enclosure

AC FIVE EC JOR EMULSIFIABLE CONCENTRATE

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SELECTIVE HERBICIDE

FOR THE PRE-EMERGENCE CONTROL OF ANNUAL GRASSES AND BROADLEAF WEEDS

(. 56479-E p.1/39

ACTIVE INGREDIENT ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		50.8%	6 <sup>0.18</sup>
INERT INGREDIENTS	• • • • • • • • •	49.2%	
	TOTAL	100.0%	
Contains 5 pounds of active ingredient per g	allon. \		
		• • •	
		6 1 1 - A 1 - A - 1 - A - A - A - A - A - A - A - A - A - A	
CAUTION Warning	~	·····	• • • • •
KEEP OUT OF REACH OF CHILDREN			· · · · · · · · · · · · · · · · · · ·
SEE BACK OF CONTAINER FOR ADDITIONAL PRECAUTIONARY STA	TEMENTS		•••••
EPA Est.No. / EPA	Reg.No. (		

NET CONTENTS:

#### RECAUTIONARY STATEMENTS //

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION Warny

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Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. When handling or applying, wear protective clothing such as goggles or face shield and rubber gloves. Wash throughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

#### STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconcious person.

If inhaled: Remove victim to fresh air. Get medical attention. If in eyes: Immediately flush with plenty of water . Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

#### DIRECTIONS FOR USE

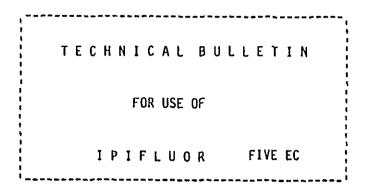
It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Refer to Technical Bulletin for Use of IPIFLUOR FIVE EC and read all directions carefully before applying.

#### STORAGE AND DISPOSAL

Storage. Avoid freezing. Store above 40 F. If frozen, poor weed conkrol may result. Do not store near heat or flame.

Pesticide Disposal. Do not contaminate water, food or feed by storage or disposal," Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal. Do not reuse empty containers. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. . .



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# CRECAUTIONARY STATEMENTS (

# HAZARDS TO HUMANS AND DOMESTIC ANIMALS

# CAUTION Warny?

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Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. When handling or applying, wear protective clothing such as goggles or face shield and rubber gloves. Wash throughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

#### STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconcious person.

If inhaled: Remove victim to fresh air. Get medical attention. If in eyes: Immediately flush with plenty of water . Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

#### DIRECTIONS FOR USE

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

# STORAGE AND DISPOSAL

Storage. Avoid freezing. Store above 40 F. If frozen, poor weed control may result. Do not store near heat or flame.

Pesticide Disposal.

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Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### Container Disposal.

Do not reuse empty containers. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. GENERAL INFORMATION

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IPIFkUOR FIVE EC is a pre-emergence herbicide which is incorporated into the soil to provide long-lasting control of annual grasses and broadleaf weeds; it controls weeds by killing their seeds as they germinate. It does not control established weeds. Incorporation of IPIFLUOR FIVE EC assures effective control regardless of weather \_\_\_\_\_\_ conditions and permits shallow cultivation, rotary hoeing and hand hoeing without re\_\_\_\_\_\_ ducing its weed control activity.

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	WEEDS AND GR	ASSES CONTROLLED		
GRASSES		BROADLEAF WEEDS		
Annual bluegrass Barnyardgrass (Watergrass)	Poa Annua Echinochloa sp.	Carpetweed Chickweed Field Bindweed	Mollugo verticillata Stellaria media Convolvulus arvensis	
Brachiaria (Signalgrass)	Brachiaria sp.	; Florida pusley ; (Florida purs	Richardia scabria lane-	
Bromegrass (Cheatgrass-Downy brome)	Bromus tectorum	Mexican clov Pusley) Goosefoot	er- Chenopodium hybridum	
Cheat (Chess)	Bromus secalinus	Henbit Knotweed	Lamium amplexicale Polygonum aviculare	
Crabgrass (Large crabgrass- Smooth crabgrass)	Digitaria sp.	¦ Kochia (Fireweed)	Kochia Scoparia	
Fall panicum	Panicum dichotom.	; Lambsquarters ; Pigweeds	Chenopodium album Amaranthus sp.	
Foxtails (Bottlegrass- Bristlegrass- Giant foxtail- Green foxtail-	Setaria sp.	(Carelessweed Prosprate pi weed-Redroot Rough pigwee Spiny pigwee	- 9 - d~ d)	
Pigeongrass~ Robust foxtail- Yellow foxtail)		Puncturevine (Caltrop) Purslane	Tribulus terrestris	
Goosegrass (Silver crabgrass-	Eleusine indica	Russian thistle (Tumbleweed)		
Silvergrass~ Wiregrass Yardgrass)		Stinging nettle (Nettle)	Irtica dioica	
Guineagrass	Panicum maximum	- 		
Johnsongrass (Seedling and Rhizome)	Sorghum halepense	1 1 1 1		
Junglerice	Echinochloa col.	1		
Raoulgrass (Itchgrass)	Rottboelia exalt.	9 1 3		

WEEDS AND GRASSES CONTROLLED

Sandbur	Cenchrus incertus ;
(Burgrass)	1 t
Sprangletop	Leptochloa filifor;
Stinkgrass	Eragrostis cilian.
(Lovegrass)	1
• •	Panicum texano
(Buffalograss-	1
Coloradograss)	
Wild cane	Sorghum bicolor
(Shattercane)	

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IPIFLUOR FIVE EC will not control certain resistant weeds such as Cocklebur, Jimsonweed, Ragweed, Velvetleaf, Nutsedge.

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IPIFLUOR FIVE EC, in mixture with other products, will control the following additional weeds:

IPIFLUOR FIVE EC/SENCOR<sup>R</sup> OR LEXONE<sup>R</sup> TANK-MIX (see Soybean section for instructions)

In soybean:

Jimsonweed	Datura stramonium
Mallow, Venice	Hibiscum trionum
(Flower-of-an-hour	)
Mustard, wild	Brassica kaber
(Charlock-	
Field mustard)	
Ragweed, common	Ambrosia artemisifolia
Sesbania, hemp	Sesbania exaltata
(Coffeebean-	
Indigo)	
Smartweed, annual	Polygonum pensylvanicum
(Pennsylvania	
smartweed-	
Smartweed)	
Prickly sida	Sida spinosa
(Teaweed-	
Spiny sida)	
Velvetleaf	Abutilon theophrasti
(Butterprint-	
Buttonweed-	
Cottonweed-	
Elephant's ear-	
Indian mallow-	
Piermarker)	

Control of Cocklebur, Morning glory and Giant Ragweed may be erratic ranging from poor to excellent depending upon soil temperature, time of weed germination, depth of weed seed in the soil and amount and timing of soil moisture. Control may be improved with timely cultivation.

IPIFLUOR FIVE EC /EPTAM<sup>R</sup> TANK-MIX (see Drybean section for instructions)

In drybean and potato:

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Henbit	Lamium amplexicale
Nightshade, black	Solanum nigrum
Nightshade, hairy	Solanum sarachoides
Nutsedge	Cyperus sp.
(Nutgrass-	
Purpie nutsedge-	
Yellow nutsedge)	
Wild oat	Avena fatua

# IPIFLUOR FIVE EC /AMIBEN<sup>R</sup> TANK-MIX AND OVERLAY (see Soybean and sunflower sections for instructions)

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In soybean and sunflower:

Coffeeweed	Sesbania exaltata
Mustard; wild	Brassica kaber
Nìghtshade, black	Solanum nigrum
Prickly sida	Sida spinosa
(Teaweed)	•
Ragweed, common	Ambrosia artemisifclia
Spurge, annual	Euphorbia maculata
Smartweed, pennsylvani	ia Polygonum pensylvanicum
Stinkgrass	Eragrostis cilianensis
Velvetleaf	Abutilon theophrasti
(Dutton and)	•

(Buttonweed)

# IPIFLUOR FIVE EC /CAPAROL<sup>R</sup> TANK-MIX (see Cotton section for instructions)

In cotton:

Smartweed	Polygonum pensylvanicum
Prickly sida	Sida spinosa
(Teaweed)	
Annual morning glory	Convolvulus
Ragweed, common	Ambrosia artemisifolia
Groundcherry, annual	
Mustard, wild	Brassica kaber
Malva	
Wild oat	Avena fatua

The tank-mix also controls shallow germinating seedlings of Cocklebur and Coffee weed.

. IPIFLUOR FIVE EC /COTORAN<sup>R</sup> TANK-MIX OR OVERLAY (see Cotton section for instructions)

In cotton:

< C	· ·	(	P' <b>'7</b> 39
Buttonweed	Abutilon theophrasti		
Cocklebur	Xanthium strumarium		
Goathead			
Grouncherry, annual			
Jimsonweed	Datura stramonium		
Morning glory, annual	Convolvulus		
Prickly sida	Sida spinosa		
Ragweed	Ambrosia artemisifolia		
Ryegrass	Lolium		
Sesbania	Sesbania		
Sicklepod	Cassia obtusifolia		
Smartweed	Polygonum pensylvanicu	n	
Tumbleweed	Amaranthus albus		_
	IPIFLUOR FIVE EC PRE (see Cotton section	PLANT FOLLOWED BY K/ n for instructions)	ARMEX <sup>R</sup> OVERLAY
In cotton:			
Dogfennel	Eupatorium capillifoli	um	
Groundcherry, annual			
Morning glory, annual	Convolvulus		
Pennycress	Thlaspi sp.		
Ragweed	Ambrosia artemisifolia		
Sheperdspurse	Capsella bursa pastori	s	
Velvetgrass	Hulcus lanatus		
Wild lettuce	Lactuca sp.		
Wild mustrad	Brassica kaber		
		NAM <sup>R</sup> TANK-MIX	
(see S	boybean and Peanut sect	ions for instruction	ns)
In soybean and peanut			
Morning glory, annual	Convolvulus		
Coffeeweed	Sesbania exaltata		
Purple nutsedge	Cyperus rotundus		
Yellow nutsedge	Cyperus esculentus		
Velvetleaf	Abutilon theophrasti		
	PIFLUOR FIVE EC /AVA		
(see	Peas and Wheat section	s for instructions)	
In peas, spring wheat	and barley:		
Wild oat	Avena fatua		
	SOIL PREPARATI	UN	

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fore herbicide application. Chop and thoroughly mix crop residues into the soil to a depth of at least 4 to 6 inches by deep plowing or discing before application. Use machinery that breaks up large clods.

### SOIL TEXTURE

Before application determine soil texture in order to apply the correct rate. Rates given in this booklet refer to the following soil texture groups:

Coarse soils: sand, loamy sand, sandy loam Medium soils: loam, silty clay loam, silt loam, silt, sandy clay loam Fine soils : clay, clay loam, silty clay loam, silty clay, sandy clay, sandy clay loam.

Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If silty clay loam or sandy clay loam soils are predominantly sand or silt, they are usually classified as medium textured soils. If they are predominantly clay, they are usually classified as fine textured soils.

# APPLICATION DIRECTIONS

IPIFLUOR FIVE EC is an emulsifiable concentrate which must be mixed with water and applied as a spray before or in the same operation as soil incorporation.

# GROUND APPLICATION

Apply in 5 to 40 gallons of water/acre (broadcast basis) using any properly cali brated low-pressure sprayer that will uniformly apply the spray. Pour the recommended amount of product into the spray tank during the filling operation and mix thoroughly before spraying. As the amount of water decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily.

Do not apply the herbicide to soils which are wet or in poor conditions or to soils which are subject to prolonged period of flooding.

#### AERIAL APPLICATION

For best results apply to a dry soil surface at a spray volume of from 5 to 10 gal lons/acre. Adjust pump pressure, nozzle arrangements, flying speed and height to provide uniform application. Use markers or flagmen to assure proper application spray widths.

Do not apply when the wind is blowing at a velocity of 5 mph or greater.

INCORPORATION

Before planting.

For best results the herbicide must be incorporated within 24 hours after application. A second incorporation is required at any time prior to planting using the equipment in a different direction from the first. Incorporation should place the product into the top 2 or 3 inches of the final seedbed.

Variable weed control may result from delayed incorporation if the herbicide is applied to a wet, warm soil surface or if the wind velocity is 10 mph or higher.

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#### After planting.

When incorporating after planting (check crops approved for incorporation after planting), use P.T.O.-driven equipment or Rolling Cultivators and adjust to till the soil over the seed or throw treated soil toward the crop. Avoid disturbing the seed or mechanically damaging the crop.

#### In bedded culture.

For effective weed control in bedded culture the product should be incorporated in to the top 2 to 3 inches of the final seedbed. Knock off beds to planting height before application and incorporation on bedded ground. Avoid removal of treated soil from the seedbed before or during the planting operation. This will expose untreated soil and allow weeds to germinate in the drill row.

#### Equipment.

For incorporation use machinery which pulverize large clods and mix the herbicide thoroughly with the soil. Thorough incorporation may be achieved with the follow ing: Disc, set to cut 4 to 6 inches deep and operated in two different directions at 4 to 6 mph; Field Cultivator, set to cut 3 to 4 inches deep and operated at 5 mph or more; Rolling Cultivator, set to cut 2 to 4 inches deep and operated two times at 6 to 8 mph (adequate for use on coarse and medium textured soils only); Bed Conditioner, set to cut 2 to 4 inches deep and operated one time at 4 to 6 mph (adequate for use on coarse and medium textured soils only); Mulch Treader and other similar disc-type implements, set to cut 3 to 4 inches deep and operated at 5 to 8 mph in two different directions; P.T.O-driven equipment (tillers, cultiva tors, hoes), set to cut 2 to 3 inches deep with rotors spaced to provide a clean sweep of the soil and operated one time (they should not be operated at a speed greater than 4 mph).

APPLICATION WITH LIQUID FERTILIZERS

IPIFLUOR FIVE EC may be mixed with most liquid fertilizers. The mixture has provided weed and grass control equal to the same rates of IPIFLUOR FIVE EC applied in water.

All individual state regulations relating to fluid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

IPIFLUOR FIVE EC alone or in tank-mixture may not combine properly with some fluid fertilizer material. Therefore, it is necessary to determine whether a com patibility agent is needed and which agent works properly testing small quantities before full-scale mixing.

- 1. Put 1 pt of fertilizer mixture in a quart jar.
- 2. Add 1 to 4 teaspoonfuls of the formulation which must be mixed to the liquid fertilizer (depending on the recommended rate/acre).
- 3. Close jar and agitate until the materials are dispersed evenly in the fertili zer. If the materials do not disperse well, slurry the chemicals in water before adding to the fertilizer.
- 4. Add 3 to 4 teaspoonfuls of IPIFLUOR FIVE EC to the jar and shake well.

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- 5. Watch mixture for about 10 minutes. If the mixture does not separate, or if agitation is only required to resuspend the combination may be used. If the mix ture separates, gets very thick or syrupy DO NOT combine for field application. A compatibility agent is needed.
- 6. Mixing ability may be improved by adding a compatibility agent. Follow the procedure outlined above and add 0.1 teaspoonful of the compatibility agent in step 2. Complete the other steps to determine if the compatibility agent solves the problem.

The use of compatibility agents is especially important when tank mixing emulsifia ble concentrates with dry flowables, wettable powders, aqueous suspensions, flow \_\_\_\_\_\_ ables, liquids or solutions in liquid fertilizers.

If a compatibility agent is needed, add it to the fluid fertilizer before adding the IPIFLUOR FIVE EC alone or in mixture.

Follow normal application procedures to apply and incorporate.

APPLICATION WITH DRY BULK FERTILIZERS

Dry bulk fertilizers may be impregnated or coated with IPIFLUOR FIVE EC. Application of dry bulk fertilizers impregnated with IPIFLUOR FIVE EC has provided weed and grass control equal to the same rates of IPIFLUOR FIVE EC applied in water.

All IPIFLUOR FIVE EC label recommendations regarding rates/acre, approved crops, incorporation, special instructions, cautions and special precautions must be followed. All individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

#### Limitations.

Apply a minimum of 200 pounds/acre of dry fertilizer impregnated with IPIFLUOR FIVE EC at the recommended rates. Any commonly used dry fertilizer can be used for IPIFLUOR FIVE EC impregnation except coated ammonium nitrate and straight limestone. These materials will not absorb the herbicide. Blends containing mixtures of these materials can be impregnated.

## Impregnation.

Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blen der. Provide uniform spray coverage of IPIFLUOR FIVE EC on to the fertilizer.

# Rates.

Check the crop section to determine the rate of IPIFLUOR FIVE EC /acre. See the rate table which follows to determine amount of IPIFLUOR FIVE EC to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer which will be applied/acre.

## Application.

Spread the fertilizer/chemical mixture normally with a properly calibrated applicator. Be certain the material is applied uniformly to the soil surface.

### Incorporation.

Follow normal incorporation procedures.

	Rate Chart ( Ipifluor		ng Fertilizer on of fertlize	with IPIFLUOR er)	ንግ Five_EC
Fertilizer Rate per Acre	r IPIFLUOR 'FIVE EC RATE/ACRE				CRE
200 pounds	4 qts/ton	6 qts/ton	8 qts/ton	12 qts/ton	16 qts/ton
250 pounds	3.2 qts/ton	4.8 qts/ton	6.4 qts/ton	9.6 qts/ton	12.8 qts/ton
300 pounds	2.7 qts/ton	4 qts/ton	5.6 qts/ton	8 qts/ton	10.8 qts/ton
350 pounds	2.3 qts/ton	3.6 qts/ton	4.8 qts/ton	6.8 qts/ton	9.2 qts/ton
400 pounds	2 qts/ton	3 qts/ton	4 qts/ton	6 qts/ton	8 qts/ton
450 pounds	1.8 qts/ton	2.7 qts/ton	3.6 qts/ton	5.4 qts/ton	7.2 qts/ton
		DIRECTIO	zer/acre		
States. T the avera Rates are	The dividing ling ling rainfall pe	ne between Ea er year is a m	stern and West inimum of 20 t	ern States is to 25 inches.	Western United the point where use proportional
	·	ALFA	LFA (Establish	ied) 🧹	·
Use restr	icted to Weste	ern US only	/		
soil and	1.6 pts on med	ium and fine	soils. Use inc	corporation equ	1.2 pts on coarse ipment that will ablished alfalfa.
		ASPAR	AGUS (Establis	shed)	~

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ASPARAGUS (Established) 🧹

In winter or early spring apply after ferns are removed but before spear emergence or apply after harvest in the late spring early summer before ferning begins. Applied as a single or as a split application at the following:

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Coarse	0.8 pts +	0.8 pts	1.6 pts OR	1.6 pts	·
 Medium	1.2 pts +	1.2 pts	2.4 pts OR	2.4 pts	-
 Fine	1.6 pts +	1.6 pts	3.2 pts OR	3.2 pts	

IPIFLUOR FIVE EC in any calendar year: 1.6 pts/acre on Maximum coarse soil, 2.4 pts/acre on medium soil, 3.2 pts/acre on fine soil.

#### BEANS

DRY BEANS - CASTOR BEANS 1

Apply and incorporate before planting at the following:

## Broadcast rate/acre

Soil texture	Eastern US	Western US
Coarse	0.8 pts	0.8 pts
Medium	1.2 pts	1-1.2 pts
Fine	1.6 pts	1.2 pts
2 to 5% organic matter	1.2-1.6 pts	1.2-1.6 pts
5.1 to 10% organic matter	1.6 pts	1.6 pts
Fine 2 to 5% organic matter 5.1 to 10%	1.6 pts 1.2-1.6 pts	1.2 pts

# Fall application.

For dry beans grown in Idaho, Oregon, Washington only, apply any time between October 15 and December 31 at a broadcast rate/acre of 0.8 pt on coarse soil, / 1 to 1.2 pts on medium soil, 1.2 pts on fine soil.

<u>IPIFLUOR FIVE EC/EPTAM<sup>R</sup> TANK-MIX -</u>

#### FOR DRY BEANS

Apply from two days before planting (up to planting in the Eastern US) at the following:

	Broadcast rat	e/acre		
Soil_texture	IPIFLUOR	FIVE_EC	EPTAM 7E	
	Eastern US	Western US		
Coarse	0.8 pts	0.8 pts	21 - 31 pts	
Medium	1.2 pts	1-1.2	21 - 31 pts	
Fine	1.6 pts	1.2 pts /	21 - 31 pts	2
2 to 5% organic matter	1.2-1.6 pts	1.2-1.6 pts	21 - 31 pts	-
5.1 to 10% organic matter	1.6 pts	1.6 pts	21 - 31 pts	-

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<u>Precautions</u>: this combination should not be used on soybean, black-eyed peas (beans), lima beans and other flatpodded beans excepted Romano. Do not use the foliage from a crop treated with this tank-mix for feed or for grazing.

Observe all directions, precautions and limitations on both products labeling.

GUAR BEANS, MUNGBEANS, LIMA BEANS, SNAP BEANS

Apply and incorporate before planting at a broadcast rate/acre of 0.8 pt on coarse soil, 1.2 pts on medium and fine soils.

CARROTS

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Apply and incorporate before planting at the following:

# Broadcast rate/acre

Soil texture	Eastern US	Western US
Coarse	0.8 pts	0.8 pts
Medium	1.2 pts	1-1.2 pts
Fine	1.6 pts	1.2 pts
2 to 5% organic matter	1.2-1.6 pts	1.2-1.6 pts
5.1 to 10% organic matter	1.6 pts	1.6 pts

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# CELERY

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Both direct-seeded and transplant.

Apply and incorporate before planting or transplanting at the following:

# Broadcast rate/acre

Soil texture	. Western US only	
Coarse	0.8 pts	
Medium	1-1.2 pts	
Fine	1.2	V
2 to 5% organic matter	1.2-1.6 pts	
5.1 to 10% organic matter	1.6 pts	<u> </u>

COLE CROPS BROCCOLI - Brussel Sprouts - CABBAGE - CAULIFLOWER

For transplants, apply and incorporate before transplanting at the following:

Broadca	ast rate/acre		
Soil texture	Eastern US	Western US	
Coarse	0.8 pts	0.8 pts	
Medium	1.2 pts	1-1.2 pts	
Fine	1.6 pts	1.2 pts	_
2 to 5% organic matter	1.2-1.6 pts	1.2-1.6 pts	
5.1 to 10% organic matter	1.6 pts	1.6 pts	,

For direct-seeded, apply and incorporate before planting at the following:

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Soil texture	Eastern US	Western US
Coarse	0.8 pts	0.8 pts
Medium	0.8 pts 🦳	0.8 pts
Fine	1.2 pts	0.8 pts
2 to 5% organic matter	1.2 pts	
5.1 to 10% organic matter		1.2 pts

Broadcast rate/acre

Direct-seeded cole crops have exhibited marginal tolerance to recommended rates. Stunting or reduced stands may occur.



## Pre-emergence application.

Apply and incorporate before planting, at planting or immediately after planting at the following:

Br	oac	lca	ast	t r	al	te/	/a	C	re

Soil texture	Eastern US	Western US
Coarse	0.8 pts	0.8 pts
Medium	1.2 pts	1-1.2 pts
Fine	1.6 pts	1.2 pts
2 to 5% organic matter	1.2 pts	1.2~1.6 pts
5.1 to 10% organic matter	1.6-2 pts	1.6 pts

When incorporating after planting care must be taken not to disturb the seed.

#### Post-emergence application.

Apply any time up to layby but not less than 90 days before harvest. Direct layby applications to the soil between the rows and beneath emerged cotton plants. Use the same rates as for pre-emergence application.

# Fall application.

Any time from October 15 to december 31. /

 In Alabama, Arkansas, Northern Florida, Georgia, Louisiana, Mississippi, SE Missouri, North Carolina, Tennessee, Texas: apply and incorporate at a broad cast rate/acre of 1.6 pts on coarse and medium soils and 2 pts on fine soil.

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- In Arizona, California, Nevada, apply and incorporate at a broadcast rate/acre of 1.2 pts on coarse soil, 1.6 pts on medium soil, 2 pts on fine soil.
- In other states other than those listed above, apply and incorporate at a broad cast rate/acre of 0.8 pt on coarse soil, 1.2 pts on medium soil, 1.6 pts on fine soil, 1.2 pts on soils with 2 to 5% organic matter, 1.6-1.2 pts on soils with 5.1 to 10% organic matter.

Special applications.

For the control of Fall Panicum in the states of Alabama, Florida, Georgia, North
 and South Carolina and Virginia, apply and incorporate at a broadcast rate/acre of 1.6 pts on both coarse and medium soils.

 For the control of Rhizome Johnsongrass in all cotton producing states except Arizona and California, apply a double-rate IPIFLUOR FIVE EC program for 2 years in a row.

Applications can be made in spring, any time before planting for two years in a row or between October 15 and December 31 for two years in a row at a broadcast rate/acre of 1.6 pts on coarse soil, 2.4 pts on medium soil and 3.2 pts on fine soil. Proper preparation of the soil before application and deep incorporation is essential for best results. Some Johnsongrass plants may escape: timely cul tivation during the crop season is necessary.

In the season following a double-rate treatment, plant only rice and those crops for which IPIFLUOR FIVE EC can be applied as a pre-plant treatment or injury may result.

For the control of Pigweed and seedling Johnsongrass in Alabama, Arkansas, Flori da, Georgia, Louisiana, Mississippi, SE Missouri, North and South Carolina, Ten nessee and Southern Virginia, apply IPIFLUOR FIVE EC, pre plant, at a broad cast rate/acre of 0.8-1.2 pts on coarse soil, 1.2-1.6 pts on medium soil, 1.6 pts on fine soil (2.4 pts in Louisiana).

- For a more complete control of all listed grasses and weeds in countries along the Texas Gulf Coast, apply up to 2 weeks before planting at a broadcast rate/ acre of 1.2 pts on coarse soil, 1.6 pts on medium soil, 2.4 pts on fine soil.

<u>Precautions:</u> cotton should be planted after early season adverse weather conditions have passed especially when using higher rate programs.

IPIFLUOR FIVE EC /CAPAROL<sup>R</sup> TANK-MIX

For cotton grown in California, Arizona, New Mexico and Texas, apply to the flat soil surface before discing at the following:

Broadcast rate/acreSoil textureIPIFLUORFIVE EC CAPANOL 80 WCoarse0.8 pts2 lbsMedium1-1.2 pts21 lbsFine1.6 pts21 lbs

Do not use on sand and loamy sand soils.  $\checkmark$ 

IPIFLUOR FIVE EC PREPLANT\_FOLLOWED BY KARMEX ROVERLAY

For cotton grown east of the Mississippi river, Arkansas, SE Missouri, Louisiana, Texas, apply and incorporate IPIFLUOR FIVE EC before planting at usual rates then make a pre-emergence application of Karmex 80W at 0.6 to 1.5 lbs per broad cast acre.

<u>Precautions</u>: do not use Karmex on sandy or low organic soils. Do not allow graze on cotton treated with Karmex.

Refer to Karmex 80W label for additional instructions, cautions and precautions.

	CUCURBITS	
CANTALOUPES	- CUCUMBERS -	WATERMELONS

Broadcast rate/acre

Apply in post-plant emerged at the following:.

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Soil texture	Texas.only	Western US
Coarse	0.8 pts	0.8 pts
Medium	1-1.2 pts	1-1.2 pts
fine	1.2 pts	1.2 pts
2 to 5% organic matter	1.2-1.6 pts	1.2-1.6 pts
5.1 to 10% organic matter	1.6 pts	1.6 pts

Apply as directed spray to the soil between the rows and beneath the plants which are in the 3 to 4 true-leaf stage. Care should be taken that incorporation machinery does not damage the plants.

TURNIPGREENS (for processing) - KALE - MUSTARD GREENS

Apply and incorporated before planting at a broadcast rate/acre of 0.8 pt on coarse and medium soils, 1.2 pts on fine soil.

HOPS

Use restricted to Western US only.

Apply and incorporate while the crop is dormant at a broadcast rate/acre of 0.8 pt on coarse soil, 1 - 1.2 pts on medium soil, 1.2 pts on fine soil and soils \_\_\_\_\_ with 2 to 10% organic matter.

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MINT

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Established Peppermint and Spearmint.

Use restricted to Oregon, Washington, Idaho.

Apply at a rate of 0.8pt on coarse soil, 1 pt on medium soil and 1.2 pts on fine soil during the dormant period.

Use incorporation equipment that will insure thorough soil mixing with a minimum of damage to the established dormant mint.

OKRA

Apply and incorporate before planting at the following:

Soil_texture	Eastern US	Western US
Coarse	0.8 pts	0.8 pts
Medium	1.2 pts	/ 1-1.2 pts
Fine	1.6 pts	1.2 pts
2 to 5% organic matter	1.2-1.6 pts	1.2-1.6 pts
5.1 to 10% organic matter	1.6 pts	1.6 pts

#### Broadcast rate/acre

PEANUTS

Spanish peanuts grown in Texas and Oklaoma only.

Apply and incorporate before planting, at planting or immediately after planting at a broadcast rate/acre of 0.8 pt on coarse soil. Care should be taken not to disturb the seed when incorporating after planting.

IPIFLUOR . FIVE EC /VERNAMR TANK-MIX

Apply up to 10 days prior to planting, incorporate immediately after application at a broadcast rate/acre of 0.8 pt of IPIFLUOR FIVE EC and  $2\frac{1}{3}$  pts of Vernam 7E. Observe all directions, precautions and limitations on both products labeling.

PEAS

ENGLISH PEAS - DRY PEAS

Apply and incorporate before planting at a broadcast rate/acre of 0.8pt on coarse

and medium soils and 1.2 pts on fine soil.

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# Fall application

- For dry and English peas grown in Idaho, Oregon and Washington ,ly, apply and incorporate any time between October 15 and Occember 31 at a broadcast rate/acre of 0.8 pt on coarse soil, 1-1.2 pts on medium soil and 1.2 pts on fine soil. \_\_\_\_\_ Do not apply in the fall to soils which are wet or are subject to prolonged period of flooding.

# IPIFLUOR \_ FIVE EC /AVADEX<sup>R</sup> BW TANK-MIX

For peas grown in Idaho, Oregon and Washington only, apply and incorporate up to 3 weeks before planting at the following:

Broadcast rate/acre					
Soil texture	IPIFLUOR	FIVE EC	AVADEX B	<u>₩</u>	
Coarse	0.6 pts		$\frac{1}{4}$ qts		
Medium	0.6 pts	·/	$1\frac{1}{4}$ qts	$\overline{\mathcal{L}}$	
rine	0.8 pts		$1\frac{1}{4}$ qts		

<u>Precautions</u>: do not apply to lentils. Do not use foliage from peas treated for feed or forage.

Observe all directions, precautions and limitations on both products labeling.

SOUTHERN PEAS

Apply and incorporate before planting at the following:

### Broadcast rate/acre

Soil texture	Eastern US	Western US
Coarse	0.8 pts	0.8 pts
Medium	1.2 pts	1-1.2 pts
Fine	1.6 pts	1.2 pts
2 to 5% organic matter	1.2-1.6 pts	1.2-1.6 pt:
5.1 to 10% organic matter	L 1.6 pts	1.6 pts

PEPPERS

Apply and incorporate before transplanting at the following:

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	Soil texture	Eastern US	Western US
	Coarse	0.8 pts	0.8 pts
	Medium	1.2 pts	1-1.2 pts
-	Fine	1.6 pts	1.2 pts
_	2 to 5% organic matter	1.2 pts	1.2-1.6 pts
	5.1 to 10% organic matter	1.6 pts	1.6 pts
Do not apply	after transplanting.		,
	POTAT	OES	

Broadcast rate/acre

Not recommended for use in the state of Maine.

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Apply after planting, before emergence or immediately following dragoff or after the potato plants have fully emerged at the following:  $\sim$ 

Broa	idcast rate/acre		
Soil texture	Eastern US	Western US	
Coarse	0.8 pts	0.8 pts	
Medium	1.2 pts	1-1.2 pts	
Fine	1.6 pts	1.2 pts	
2 to 5% organic matter	1.2 µts	1.2-1.6 pts	
5.1 to 10% organic matter	1.6 pts	1.6 pts	

Care should be taken so that incorporation machinery does not damage potato seed pieces or elongating sprouts. Set incorporation equipment so that bed and furrow will be uniformly covered by the product.

If the layer of IPIFLUOR FIVE EC treated soil is not uniform, potato emergence may be retarded and stem brittleness can occur.

When applying and incorporating after potato plants have fully emerged, do not completely cover the foliage with treated soil.

Split application in Idaho, Oregon, Washington.

On all soils upply and incorporate 0.6 pt before planting and 0.6 pt after planting when potato plants have fully emerged.

Precautions: do not apply to soil containing 2% or more organic matter.

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# IPIFLUOR FIVE EC/EPTAMR TANK-MIX

- For potatoes grown in Kansas, Minnesota, Nebraska, North Dakota, Oklahoma, South Dakota, texas, apply after planting, but prior to crop emergence. In areas where potatoes are normally dragged off the mixture should be applied and incorporated up to or immediately following drag off.

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Soil texture	IPIFLUOR	FIVE EC	EPTAM 7E
Coarse	Eastern US 0.8 pts	Western US 0.8 pts	$1\frac{3}{4} - 7 \text{ pts (°)}$
Medium	0.8-1.2 pts	_0.8-1.2 pts	$1\frac{3}{4} - 7$ pts (°)
Fine	0.8-1.6 pts	0.8-1.2 pts	$1\frac{3}{4} - 7 \text{ pts (°)}$
2 to 5% organic matter	1.2 pts	1.2 pts	$1\frac{3}{4} - 7 \text{ pts } (\circ)$
5.1 to 10% organic matter	1.6 pts	1.6 pts	$1\frac{3}{4} - 7$ pts (°)

# Broadcast rate/acre

(°) Use higher rates for nutsedge control.

<u>Precautions:</u> do not graze or feed forage to livestock from fields treated with this mixture.

For potatoes grown in Washington, Idaho, Oregon, apply and incorporate before
planting at a broadcast rate of 0.6 pts of IPIFLUOR FIVE EC /acre and 3½ pts
of EPTAM 7E/acre on all soils.

<u>Precautions</u>: do not use this tank-mixture both before and after planting in the same season. Do not use foliage from treated crops for feed or for rage.

Observe all directions, precautions and limitations on both products labeling.

SAFFLOWER

Apply and incorporate in the spring before planting or in the fall between October 15 and December 31 at the following:

Broadca	ast rate/acre		
Soil texture	Eastern US	Western US	
Coarse	0.8 pts	0.8 pts	
Medium	1.2 pts	1-1.2 pts	
Fine	1.6 pts	1.2 pts U	
2 to 5% organic matter	1.2 pts	1.2 pts	
5.1 to 10% organic matter	1.6-2 pts	1.6-2 pts	

Fall application

For safflowers grown in Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming: apply and incorporate anytime between October 15 and December 31 at a broadcast.rate/acre of 1.2 pts on coarse soil, 1.6 pts on medium scil, 2 pts on fine soil.

<u>Precautions</u>: do not apply in the fall to soils which are wet or are subject to prolonged periods of flooding.

	SOYBEAN	
Apply and incorporate before pl	anting at the follow oadcast rate/acre	ing:
Soil texture	Eastern US	Western US
Coarse	0.8 pts	0.8 pts
Medium	1.2 pts	1-1.2 pts
Fine	1.6 pts //	1.2 pts
2 to 5% organic matte	1.2 pts	1.2-1.6 pt
5.1 to 10% organic matte	1.6-2 pts	1.6 pts

(°) except charcoal soils in Arkansas, Louisiana and Mississippi (see below)

Charcoal soils in Arkansas, Louisiana, Mississippi.

Newly cleared land often contains high organic matter (4 to 10%) and charcoal which result from burning debris. This tend to bind Ipifluor reducing its weed control activity. Higher product rates are therefore necessary, but increased rates can cause crop injury if charcoal or organic matter is not present. Apply and incorporate at a broadcast rate/acre of 1.6 - 2 pts on coarse soil, 2 pts on medium soil, 2.4 pts on fine soil.

## Fall application ~

Apply anytime between October 15 and December 31.

- In Alabama, Arkansas, Northern Florida, Georgia, Louisiana, Mississippi, SE Missouri Bootheel, North Carolina, Oklaoma, South Carolina, Tennessee, Texas:

apply and incorporate at a broadcast rate/acre of 1.6 pts on coarse and medium
 soils and 2 pts on fine soil.

- In Eastern United States other than thoose listed above: apply and incorporate at a broadcast rate/acre of 0.8 pt on coarse soil, 1.2 pts on medium soil and 1.6 pts on fine soil, 1.2 pts on coarse soil with 2 to 5% organic matter, 1.6-2 pts on soils with 5.1 to 10% organic matter.

<u>Precautions</u>: do not apply to soils which are wet or subject to prolonged periods of flooding or where rice was grown the previous year.

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 For the control of Fall Panicum in Alabama, Florida, Georgia, North and South Carolina, Virginia: apply at a broadcast rate/acre of 1.6 pts on both coarse and medium soils.

 For a more complete control of Pigweed and seedling Johnsongrass in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, SE Missouri, North and South Carolina, Tennessee, S. Virginia: apply at a broadcast rate/acre of 0.8-1.2
 pts on coarse soil, 1.2 - 1.6 pts on medium soil, 1.6 pts on fine soil (2.4 pts in the state of Louisiana).

- For a more complete weed control in the Texas Gulf Coast: apply up to 2 weeks before planting at a broadcast rate/acre of 1.2 pts on coarse soil, 1.6 pts on medium soil, 2.4 pts on fine soil.

 For suppression or partial control of Red Rice in Arkansas, Louisiana, Mississippi, Texas: apply as directed at double the normal rate the first year and at the normal rate the second year. Apply and incorporate anytime in the spring before planting at the following:

 Soil texture	lst Year	2nd Year	
Coarse	1.6 pts	0.8 pts	
 Medium	2.4 pts	1.2 pts	
 Fine	3.2 pts	1.6 pts v	
 2 to 5% organic matter	2.4 pts	1.2 pts	
 5.1 to 10% organic matter	3.2 pts	1.6-2 pts	

Broadcast rate/acre

(°) If a combination of high organic matter and charcoal are present apply in the second year the rates labeled for charcoal soils in Louisiana, Arkansas and Mississippi
(1.2 - 2 pts on coarse soil, 2 pts on medium soil, 2.4 pts on fine soil.

<u>Crop rotation</u>: plant only those crops for which IPIFLUOR FIVE EC has been registered as a preplant treatment.

Precautions: do not plant rice the second year.

- For the control of Rhizome Johnsongrass in Eastern United States and Texas. Apply in a row for two consecutive years according to the program that best fits your cultural practices:
  - . as spring application, anytime in spring before planting,
  - . as fall application, between October 15 And December 31,
  - . as split application, directed under both spring and fall applications.

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#### Broadcast rate/acre

Soil texture	Spring/Fall	Split
Coarse	1.6 pts	0.8 pts
Medium	2.4 pts	1.2 pts
Fine	3.2 pts (	1.6 pts
2 to 5% organic matter	2.4 pts	1.2 pts
5.1 to 10% organic matter	3.2 pts	1.6 pts

Proper preparation of the soil before application and deep incorporation are very important for best results. Some Johnsongrass plants may escape. Timely cultivations during the crop season are necessary.

- For the control of Wild Cane (shattercane).

Wild cane can germinate from greater soil depth that most other weed seeds. Several "flushes" or germinating times are common in one season. Commercially acceptable control of Wild Cane can be obtained with increased rates of  $\nu$ 

Land preparation. Work your land to destroy exsisting grasses and weeds. Thoroughly miw crop residues into the soil to a depth of 4 to 6 inches. <u>Application</u>. Apply before planting at a broadcast rate/acre of 0.8 pt on coarse soil, 1.6 pts on medium soil, 2 pts on fine soil. Incorporation. Deep incorporation is essential to good wild cane control. Incor-

porate thoroughly with a disc only set to cut 4 to 6 inches deep and operate in 2 different directions at 4 to 6 mph.

<u>Cultivation</u>. Cultivations during the crop season will also contribute to control. <u>Precautions</u>. plant soybeans after early season adverse weather conditions have

passes; Do not plant soybeans deeper than 2 inches. Crop injury in the form of delayed growth may occurr under adverse cool, wet weather conditions early in the season when IPIFLUOR FIVE EC is used according to these recommendations.

IPIFLUOR FIVE EC /SENCOR<sup>R</sup> OR LEXONE<sup>R</sup> TANK-MIX

- For the control of grasses and weeds controlled by IPIFLUOR FIVE EC alone plus additional weeds listed for the mixture, apply from two weeks before planting up to planting at the following:

Soil texture	IPIFLUOR	FIVE EC	Sencor 50WP/4 or Lexone 50WP/4	<u>L</u>
Coarse	0.8 pts		] lb/pt	_
Medium	1.2 pts	/	$\frac{3}{4}$ lbs/pts	- 
Fine	1.6 pts		1 16/pt	-

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Do not use on coarse soils with less than 1% organic matter.

	OR	OR		e
			Sencor	(dry flow.)
	_		or	•
Soil text	ure IPIFLUOR	FIVE EC	Lexone	(dry flow.)
Coarse	0.8 pts		$\frac{1}{3}$ lbs	
Medium	1.2 pts	/	½ lbs	
Fine	1.6 pts	y	$\frac{2}{3}$ lbs	

Do not use on coarse soils with less than 1% organic matter.

- <u>Precautions</u>: do not plant any crop other than soybeans within 4 months after treatment. Over application, uneven application or improper s. ( incorporation can result in erratic weed control or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, soil pH over 7.5, high salt concentration or droughty may weaken crop seedlings and increase possibility of damage from the application of this tank-mix.
- For the control of Rhizome Johnsongrass.

Apply up to two weeks before planting for two consecutive years at the following:

## Broadcast rate/acre

Soiltexture	IPIFLUOR	FIVE EC	Sencor 50WP/4 or Lexone 50WP/4L	
Coarse	1.6 pts		}-lb/pt	
Medium	2.4 pts	1	$\frac{3}{4}$ lbs/pts	
Fine	3.2 pts		1 1b/pt	-

Do not use on coarse soils with less than 1% organic matter.

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		Sencor (dry flow.)
Soil texture	IPIFLUOR	or FIVE EC Lexone (dry flow.)
Coarse	1.6 pts	$\frac{1}{3}$ lbs
Medium	2.4 pts	1 lbs
Fine	3.2 pts	$\frac{2}{3}$ lbs
Do not use on coar	se soils wit	th less than 1% organic

matter.

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'recautions: do not use the foliage from soybeans for feed or forage.

Observe all directions, precautions, limitations and mixing procedures on both products labeling.

# IPIFLUOR FIVE EC PREPLANT + SENCOR OR LEXONE OVERLAY

Apply IPIFLUOR FIVE EC as a preplant incorporated herbicide. As a separate operation make a single application of Sencor or Lexone as either a band or broadcast spray during planting or as a separate operation after planting but before soybeans emerge.

(Rates are given according to the use of Sencor or Lexone respectively).

# Broadcast rate/acre

Sencor 50WP/4 or Lexone 50WP/4L p. 31/ 1/251 27

Soil texture	IPIFLUOR : FIVE EC	Postplant/Preemergence
Coarse	0.8 pts	$\frac{3}{4}$ - 1 pr $\frac{3}{4}$ lbs/pts
Medium	1.2 pts	$\frac{3}{4} - 1\frac{1}{2}$ or $\frac{3}{4} - 1$ lbs/pts
Fine	1.6 pts	$1 - 1\frac{3}{4}$ or 1 lbs/pts
Do not neally Concer t		loss and lossy pand) can

Do not apply Sencor to coarse soils (sandy loam and loamy sand) containing less than 2% organic matter. Do not apply Lexone to sand or soils with less than ½% organic matter.

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Soil_texture	IPIFLUOR FIVE EC	Sencor (dry flowable) or Lexone (dry flowable) Postplant/preemergence	
Coarse	0.8 pts	$\frac{1}{2} - \frac{2}{3}$ or $\frac{1}{2}$ lbs/pts	
Medium	1.2 pts	1 - 1 op 1 -2 lbs/pts	/
Fine	1.6 pts	$\frac{2}{3}$ - $1\frac{1}{6}$ or $\frac{2}{3}$ lbs/pts	/

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Do not apply Sencor to coarse soils (sandy loam and loamy sand) containing less than 2% organic matter.

Do not apply Lexone to sand or soils less than 1% organic matter.

<u>Precautions:</u> do not use Lexone or Sencor on Tracy, Semmes, Altona, Vansoy or Coker 102 soybeans being these varieties sensitive to above products. Do not use treated vines for feed or forage. Seed must be planted at least 1½ inches below the soil surface but not more than 2 inches before a Sencor or Lexone application. Do not apply Sencor or Lexone more than once per season. Do not replant areas treated with sencor or Lexone to any crops other than soybean within 4 months after treatment.

Observe all directions, precautions and limitations on all products labeling.

IPIFLUOR FIVE EC/AMIBEN R TANK-MIX OR OVERLAY

Tank-mix: apply as a spring preplant incorporated treatment.

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Overlay: apply IPIFLUOR FIVE EC as a preplant incorporated herbicide and then Amiben 2S broadcast or in a band over the soybean row at planting time.

Bro	oadcast rate/ac	cre	
Soil texture	IPIFLUOR A	FIVE EC	AMIBEN 2S
Coarse	0.8 pts	/	4-6 qts
Medium	1.2 pts 🗸		4-6 qts
Fine	1.6 pts		4-6 qts

Use the higher rates of Amiben 2S where you expect heavy populations of smartweed, velvetleaf, ragweed, wild mustrad and blacknightshade.

Observe all directions, precautions and limitations on both products labeling.

IPIFLUOR FIVE EC /VERNAMR TANK-MIX

Apply up to 10 days prior to planting at the following:

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	Broadcast rate/acre			
Soil texture	IPIFLUOR	FIVE EC	VERNAM 7E	
Coarse	0.8 pts		$1\frac{3}{4} - 2\frac{1}{3}$ pts	
Medium	1.2 pts	/	$2\frac{1}{3} - 3 \text{ pts} (\circ)$	
Fine	1.6 pts		3 - 3½ pts	

(°) Use higher rates for nutsedge, wild cane and velvetleaf control. Observe all directions, precautions and limitations on both product labeling.



Apply as a broadcast, overtop spray to plants immediately after blocking or thin ning when plants are between 2 and 5 inches tall. Exposed beet roots should be covered with soil prior to application to reduce possibilities of girdling. Care should be taken that incorporation machinery does not damage the sugar beets taproot.

Broad	icast rate/acre	
Soil texture	Eastern US	Western US
Coarse	0.8 pts	0.8 pts
Medium	1.2 pts	1-1.2 pts
Fine	1.2 pts	1.2 pts

# Special application.

 Incorporation with a tine-tooth harrow in Californi, Jolorado, Idaho, Montana, Nebraska, Oregon, texas, Utah, Washington, Wyoming.

A properly operated time-tooth harrow can provide adequate incorporation of the herbicide for effective weed control in sugar beets. Operate the time-tooth harrow two times over the field in opposite directions at a speed of 3 to 6 mph and set the harrow to cut 1 to 2 inches deep. Care should be taken to insure that the time-tooth harrow does not damage the sugar beet taproot.

SUGARCANE

Plant Cane 🧹

Apply and incorporate twice a year at a broadcast rate/acre of 1.6-3.2 pts for all soil textures. Make the application in the fall on firmly packed beds immedia  $\smile$  tely after the seed pieces are planted.

Make the application in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2 to 3 inches deep before the spring application. Care should be taken so that incorporation machinery does not damage the seed  $\smile$  pieces or emerging shoots.

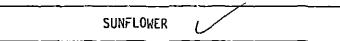
# Plant and Ratoon Cane (grown in Louisiana and texas only)

Apply and incorporate at a broadcast rate/acre of 1.6 - 3.2 for all soil textures. Make application in the spring from before or shortly after the cane emerges up to layby. Make application after the beds have been shaved or false shaved. Loosen rain-packed bed 2 to 3 inches deep before application. Care should be taken so that incorporation machinery does not damage seed pieces or emerging roots.

Post-plant in Hawaii (only for control of most annual grass including guineagrass) Surface apply after planting (for plant cane) or after harvesting (for ratoon cane) before weeds and cane emerge at a broadcast rate/acre of 4.8 - 6.4 pts for all soil textures. In plant cane the beds should be formed or rolled before application. In ratoon cane, the crop residue should be removed before application. Apply just before anticipated rainfall or sprinkle irrigate immediately after application.

# Itchgrass control (in Louisiana only)

Apply and incorporate on either plant or ratoon cane at a broadcast rate/acre of 3.2 pts for all soil textures. Apply in the spring from before or shortly after the cane emerges up to layby. Follow directions above for sugarcane layby application / in Louisiana and Texas.



Apply and incorporate in the spring or in the fall between October 15 and December 31 at the following:

cast rate/acre	
Eastern US	Western US
0.8 pts	0.8 pts
1.2 pts	1-1.2 pts
1.6 pts	1.2 pts
1.2-1.6 pts	1.2-1.6 pts
1.6 pts	1.6 pts
	Eastern US 0.8 pts 1.2 pts 1.6 pts 1.2-1.6 pts

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IPIFLUOR FIVE EC /AMIBEN<sup>R</sup> TARK-MIX OR OVERLAY

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Tank-mix: apply prior to planting.

Overlay : apply Amiben 25 in band or broadcast over sunflowers at planting in fields where IPIFLUOR FIVE EC has been incorporated prior to planting.

Broa	dcast rate/ac	re		
Soil texture	IPIFLUOR	FIVE EC	AMIBEN 25	
Coarse	0.8 pts		4 qts	
Medium	1.2 pts	,	4 - 6 qts (°)	
Fine	1.6 pts		4 - 6 qts (°)	

(°) Use higher rates for best control of Mustard, Common Ragweed or Black Nightshade.

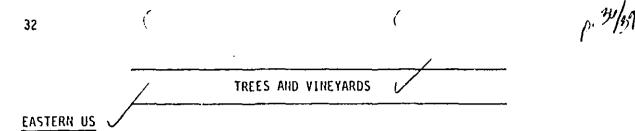
If sufficient rain does not fall within 7 days after a pre-emergence application of Amiben, but there is enough soil moisture, a light cultivation with a rotary hoe or similar tool will uproot these small broadleaf weeds and grasses. In coarse soil heavy rains may move incorporated Amiben below the weed seed ger minating zone; erratic weed control may result.

TOMATOES

For transplant, apply and incorporate before transplanting at the following:

cast_rate/acre	
Eastern US	Western US
0.8 pts	0.8 pts
1.2 pts	1-1.2 pts
1.6 pts	1.2 pts
1.2 pts	1.2-1.6 pts
1.6 pts	1.6 pts \$
	Eastern US 0.8 pts 1.2 pts 1.6 pts 1.2 pts

For direct-seeded tomatoes, apply and incorporate to soil between the rows and beneath the plants.



- For new planting of vineyards, citrus and peacan trees, apply and incorporate before planting at the following:

Broadcast rate/acre

Dioadcust it	
Soil texture	
Coarse	0.8 pts
Medium	1.2 pts
Fine	1.6 pts
2 to 5% organic matter	1.2 pts
5.1 to 10% organic matter	1.6 pts

- For Non-Bearing established plantings of citrus and peacan trees and bearing plantings of grapefruit, lemon, orange, pecan, tangelo, tangerine trees, apply at a broadcast rate/acre of 1.6 - 3.2 pts for all soil textures. Apply as directed spray to soil around the trees and use incorporation methods not injurious to the trees.

For continued weed control in citrus area, apply twice a year at an interval of approximately 4 to 6 months.

WESTERN US

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- For new plantings of almond, apricot, citrus, nectarine, peach, pecan, walnut trees, apply and incorporate before planting at the following:

Broadcast rate/acre

Scii texture	
Coarse	0.8 pts
Medium	1-1.2 pts
Fine	1.2 pts
2 to 5% organic matter	0.8-1.2 pts
1 to 10% organic matter	1.6 pts

- For new plantings of vineyards, apply before planting at the following:

0.8-1.2 pts	
1.2-2.4 pts	
2.4-3.2 pts	
	1.2-2.4 pts

Broadcast rate/acre

Do not use more than 1.6 pts/acre on heat-treated vines.

- For post-plant applications on bearing and non-bearing established plantings of vineyards, almonds, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees, apply at a broadcast rate/acre of 1.6 - 3.2 pts for all soil textures. Apply as a directed spray to the soil around the trees or vines and use incorporation methods not injurious to the trees or vines.

Do not apply to vineyards within 60 days of harvest.

For continued weed control in citrus trees, apply twice a year at an interval of about 4 to 6 months.

#### Special application

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- For Rhizome Johnsongrass control (Western US only)

Commercially acceptable control of Rhizome Johnsongrass can be obtained with postplant applications in bearing and non-bearing established plantings of vineyards, almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerines, walnut trees.

Work the soil thoroughly to bring the rhizomes nearer the surface. Apply for two years in a row at a broadcast rate/acre of 3.2 pts on all soil textures each year. Incorporate thoroughly with a disc set to cut 4 to 6 inches deep and operate 2 times at 4 to 6 mph.

Some Johnsongrass plants will escape. Timely cultivations are necessary.

<u>Precautions:</u> do not use the 1.6 qt rate on new plantings; do not interplant orchards or vineyards with other crops; if the treated vineyards and orchards are diverted to other crop uses, plant only those crops for which IPIFLUOR FIVE EC has been re gistered as a preplant treatment for the next cropping season.

 For Field Bindweed control in vineyards, almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine, walnut trees in California only.

Apply in the spring with a specially designed spray blade which applies at a soil depth of 4 to 6 inches at a broadcast rate/acre of 3.2 pts on all soil textures in 40-80 gallons of water/acrc.

Destroy all weeds and grasses with soil tillage before applying.

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WINTER WHEAT grown in Idaho, Montana, Oregon and Washington. Apply any time during a period from 3 weeks up to immediately prior to planting at a broadcast rate/acre of 1.2 pts on coarse and medium soils and 1.6 pts on 4 fine soils.

Incorporate, with a flexible tine-tooth harrow set to cut 1 to 2 inches deep and operate at 3 to 6 mph, one time within 24 hours after application and a second time, in a different direction, prior to planting.

WINTER WHEAT fallovsoil application in Washington and Oregon. Apply any time from May to September prior to the fall planting at a broadcast ra te/acre of 1.2 pts on coarse and medium soils and 1.6 pts on fine soil. Incorporate, with a flexible tine-tooth harrow set to cut 1 to 2 inches deep and operate at 3 to 6 mph, one time within 24 hours after application and a second time, in a different direction, prior to planting.

# SPRING WHEAT, DURUM, BARLEY

Apply as a postplant incorporated treatment, after seeding but before the crop emerges, to control foxtail at a broadcast rate/acre of 0.8 pt on coarse and me dium soils and 1.2 pts on fine soil.

Incorporate using a flex-tine or diamond harrows operating two times in different directions at 5 mph, 1 to 12 inches deep.

#### Fall application

Apply any time between October 15 and December 31 with a double incorporation: the first within 24 hours after application, the second prior to planting at a broadcast rate/acre of 0.8 pt on coarse and medium soils and 1.2 pts on fine soil.

For the incorporation use: chisel plow (for the first jars only) operating at 4 to 6 mph. set to cut at 4-5 inches deep; tandem disc, operating at 4-6 mph. 3-4 inches deep; field cultivator, operating at 5 mph, 3-4 inches deep.

SPECIAL PRECAUTIONS

Applied according to directions and under normal growing conditions IPIFLUOR FIVE EC will not harm the treated crop. Over application may result in crop injury or a soil residue. Uneven application or improper soil incorporation can result in erratic weed control or crop injury.

Special precautions must be taken:

- In the Western United States (Arizona, Colorado, California, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and wyoming): to avoid crop injury do not plant sugarbeets, red beets or spinach for 12 months after IPIFLUOR FIVE EC application or for 14 months after a fall application of the product.

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Do not plant sorghum, corn, oats for 14 months after spring application or for 16 months after fall application. If land has not been irrigated, do not pland any of these crops for 18 months after spring application or for 20 months after fall application.

- In the Western United States (Kansas, Nebraska, North Dakota, Texas in those areas where at least 25 inches of irrigation or rainfall was used to produce the crop): do not plant sorghum or oats for 12 months after the herbicide ap plication. If less than 25 inches of water was used to produce the crop, do not plant sorghum or oats for 18 months after application. Cool, wet weather condi tions during the early stage of growth may increase the possibility of injury to sorghum.
- In the Eastern United States: moldboard plow before planting sugarbeets where a spring application was made the previous season.
- In Florida only: do not plant vegetable crops other than those listed in the label within 5 months following the application of IPIFLUOR FIVE EC.

# NOTICE OF WARRANTY

MPH Handel AG warrants that this product conforms to the chemical descrip tion on the label thereof and is reasonably fit for the purposes stated on such la bel only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of the product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use application, all of which are beyond the control of MPH Handel AG.

In no case shall MPH Handel AG be liable for consequential, special or in direct damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. MPH Handel AG makes no warranties of mer chantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

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