

PM-25

Reg # 3125-325

126

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States Environmental Protection Agency
Washington, DC 20460

Registration
Amendment
 Other

OPP Identifier Number

247146

Application for Pesticide - Section I

1. Company/Product Number 3125-325	2. EPA Product Manager Robert J. Taylor	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Sencor DF 75% Dry Flowable Herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Bayer Corporation P.O. Box 4913, 8400 Hawthorn Rd. Kansas City, MO 64120-0013 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION
MAY 1 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

See attached.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
					<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product.	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Brian A. Dehart	Title Registration Specialist	Telephone No. (Include Area Code) (816) 242-2381
2. Signature 		3. Title Manager, Registrations
4. Typed Name John S. Thornton		5. Date 4/19/96
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)

246

325-8723.YLD

Base Pre-Reg (8723)

U. S. LABEL

Reason To Issue: To add claims for preplant/preemergence "burndown" use on field corn and soybeans. 07/14/95 Draft: Revised according to internal comments. 03/25/96 Draft: To correct rate of 2,4-DB and to update tank mix partners to include Roundup Ultra and Touchdown.

Date of Draft: 03/25/96 (Pre-Reg) (D)
Supersede Pre-Reg Draft: 07/14/95

Sencor[®] DF

75% Dry Flowable Herbicide

For control of certain grasses and broadleaf weeds.

ACTIVE INGREDIENT:

4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one 75%

INERT INGREDIENTS: 25%

100%

EPA Reg. No. 3125-325

Sencor DF

AMENDMENT To Previously Registered Labeling

ADD THE FOLLOWING:

BURNDOWN WEED CONTROL - Field Corn and Soybeans

SENCOR DF can be used as part of a herbicide program for burndown of existing vegetation prior to crop emergence in conservation tillage systems. SENCOR may be tank mixed with 2,4-D low volatile ester (LVE), Gramoxone Extra, or Roundup / Roundup Ultra / Touchdown for control of emerged weeds prior to field corn or soybean emergence. SENCOR tank mixes with 2,4-DB, Fusion, Poast Plus or Select may also be used in soybeans for control of emerged weeds prior to crop emergence. SENCOR DF burndown tank mixes can be applied before planting or prior to crop emergence in the following areas:

Field Corn:

Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin

Soybeans:

All areas for all products except Fusion tank mixes - see Fusion section of this label for recommended states.

Application: SENCOR DF may be applied up to 30 days prior to planting or preemergence. Apply only by ground equipment when SENCOR DF is used for burndown of existing vegetation in conservation tillage systems. SENCOR DF and tank mix partner burndown rates are listed in the following three tables.

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396

SENCOR DF 75% Dry Flowable Herbicide

CROPS	APPLICATION TIMING	SENCOR DF RATE (OZ/A)
Field corn Iowa Kansas Missouri Nebraska South Dakota	Preplant 0 to 30 days	2 to 5-1/3
	Preemergence	
Field corn Illinois Indiana Kentucky Michigan Minnesota Ohio Wisconsin	Preplant 10 to 30 days	2 to 5-1/3
	Preplant 0 to 9 days	2 to 4
	Preemergence	
Soybeans	Preplant 0 to 30 days	2 to 5-1/3
	Preemergence	

PRODUCT	RATE	DIRECTIONS AND REMARKS
SENCOR DF + 2,4-D LVE	2 to 5-1/3 oz/A* + 1/4 to 1 lb ai/A	In soybeans, apply at least 7 days preplant when using 2,4-D LVE at 1/4 to 1/2 lb ai/A and at least 30 days preplant with rates greater than 1/2 lb ai/A. Include crop oil concentrate (COC) at the rate of 1 gal/100 gal of spray solution (1% v/v). In corn, apply at least 7 days preplant or at least 3 days after planting but before corn emergence.
SENCOR DF + Gramoxone Extra	2 to 5-1/3 oz/A* + 24 to 48 fl oz/A	Must be applied prior to crop emergence. Use 24 to 32 fluid ounces of Gramoxone Extra for weeds less than 4 inches in height and 32 to 48 fluid ounces when weeds are 4 to 6 inches in height. Apply in 20 to 60 gallons of water per acre. Include either nonionic surfactant at 1 quart per 100 gallons (0.25% v/v) or crop oil concentrate at 1 gallon per 100 gallons (1% v/v) of spray solution.
SENCOR DF + Gramoxone Extra + 2,4-D LVE	2 to 5-1/3 oz/A* + 24 to 48 fl oz/A + 1/4 to 1 lb ai/A	For this tank mix follow the Directions and Remarks Sections above for SENCOR + 2,4-D LVE and SENCOR + Gramoxone Extra, paying special attention to crop planting restrictions with 2,4-D LVE. Include either nonionic surfactant or crop oil concentrate in this tank mix.
SENCOR DF + Roundup/ Roundup Ultra or Touchdown	2 to 5-1/3 oz/A* + 12 to 24 fl oz/A or 8 to 16 fl oz/A	Must be applied prior to crop emergence. Use the higher rates as weeds approach the maximum weed heights listed in the "Weeds Controlled" section below. Apply in 10 to 20 gallons of water per acre. With Roundup and Touchdown, include nonionic surfactant at 2 quarts per 100 gallons (0.5% v/v) and ammonium sulfate (spray grade) at 17 pounds per 100 gallons of spray solution. With Roundup Ultra, include ammonium sulfate (spray grade) at 17 pounds per 100 gallons of spray solution. Any glyphosate formulation registered and labeled for use in field corn or soybeans may be tank mixed with SENCOR.
SENCOR DF + Roundup/ Roundup Ultra or Touchdown + 2,4-D LVE	2 to 5-1/3 oz/A* + 12 to 24 fl oz/A or 8 to 16 fl oz/A + 1/4 to 1 lb ai/A	For this tank mix follow the Directions and Remarks Sections above for SENCOR + 2,4-D LVE and SENCOR + Roundup / Roundup Ultra / Touchdown, paying special attention to planting restrictions with 2,4-D LVE. Use the adjuvant recommendations under the SENCOR + Roundup / Roundup Ultra / Touchdown tank mix. Do not use crop oil concentrate.

* If applied to field corn grown in Illinois, Indiana, Kentucky, Michigan, Minnesota, Ohio and Wisconsin, refer to Table 1 for correct SENCOR rate based on application timing.

TABLE 3. SENCOR DF PLUS TANK MIX PARTNER BURNDOWN RATES — SOYBEANS ONLY		
PRODUCT	RATE	DIRECTIONS AND REMARKS
SENCOR DF + 2,4-DB	2 to 5-1/3 oz/A + 1/8 to 7/32 lb ai/A	Apply preplant or before soybean emergence. Include nonionic surfactant at 2 quarts per 100 gallons (0.5% v/v) of spray solution.
SENCOR DF + Fusion + 2,4-D LVE	2 to 5-1/3 oz/A + 4 to 8 fl oz/A + 1/4 to 1 lb ai/A	For use only in Delaware, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota, Virginia, West Virginia, and Wisconsin. For this tank mix follow the planting restrictions under the Directions and Remarks Section above for SENCOR + 2,4-D LVE. Fusion rates of 4, 6 and 8 fl. ounces will control certain grasses up to 2, 4 and 6 inches in height, respectively. Include either crop oil concentrate at 1 gallon per 100 gallon (1.0% v/v) or nonionic surfactant at 1 to 2 quarts per 100 gallons (0.25 to 0.5% v/v) of spray solution. Refer to the Fusion label for additional information.
SENCOR DF + Poast Plus + 2,4-D LVE	2 to 5-1/3 oz/A + 8 to 16 fl oz/A + 1/4 to 1 lb ai/A	For this tank mix follow the planting restrictions under the Directions and Remarks Section above for SENCOR + 2,4-D LVE. The 8 and 12 fl oz rate of Poast Plus will control certain grasses up to 2 and 3 inches in height, respectively. Include either crop oil concentrate at the rate of 1 gallon per 100 gallons of spray solution (1% v/v) or Dash HC at 1 pint per acre. Refer to the Poast Plus label for additional information.
SENCOR DF + Select + 2,4-D LVE	2 to 5-1/3 oz/A + 3 to 4 fl oz/A + 1/4 to 1 lb ai/A	For this tank mix follow the planting restrictions under the Directions and Remarks Section above for SENCOR + 2,4-D LVE. The 3 and 4 fluid ounce rates of Select will control certain grasses up to 3 and 4 inches in height, respectively. Include crop oil concentrate at the rate of 1 quart per acre and 28% UAN (urea ammonium nitrate) at a rate of 1 to 2 quarts per acre. Refer to the Select label for additional information.

Special Precautions. Do not apply these treatments after crop emergence. Observe all precautions and limitations on the labeling of all products used in tank mixtures. Refer to the General Information section of this label for additional information, precautions, and limitations.

Field Corn:

1. Do not apply on coarse textured soils with less than 1.5% organic matter.
2. Do not apply more than 4 oz. of SENCOR DF per acre on soils with less than 2% organic matter.
3. Do not apply on soils having pH 7.0 or greater.
4. Do not apply more than 5-1/3 ounces SENCOR DF (0.25 pound active ingredient) per acre per growing season.
5. Corn seed should be planted a minimum of 1-1/2 inches deep.
6. SENCOR DF may only be used in hybrid seed corn production fields if both inbred parents are known to be tolerant to SENCOR DF.

Soybeans:

1. Apply only 2,4-D low volatile ester formulations which are registered and recommended for preplant or burndown use in soybeans.
2. Do not apply tank mixtures containing 2,4-D LVE if wind is blowing toward desired susceptible plants (i.e. cotton, tobacco, tomato, etc.) or when wind speeds exceed 6 miles per hour.

Feeding restrictions. Corn treated with SENCOR DF may be harvested for silage or grain 60 days after treatment. Soybean vines or hay treated with SENCOR DF may be grazed or fed to livestock 40 days after application. Do not feed hay, forage, fodder or graze 2,4-D, Select, or Fusion treated vegetation. Follow the most restrictive preharvest interval of all products used in a tank mixture.

59.6

SENCOR DF 75% Dry Flowable Herbicide

Weeds controlled. SENCOR DF in tank mixtures with the above herbicides will provide burndown control of the weeds listed below.

WEEDS CONTROLLED BY BURNDOWN RATES OF SENCOR DF											
WEEDS CONTROLLED	SENCOR DF plus										
	2,4-D LVE	Poast Plus + 2,4-D LVE	Select + 2,4-D LVE	Fusion + 2,4-D LVE	Roundup/ Roundup Ultra/ Touchdown	Roundup/ Roundup Ultra/ Touchdown + 2,4-D LVE	Gramoxone Extra	Gramoxone Extra + 2,4-D LVE	2,4-DB		
ANNUAL GRASSES	MAXIMUM BURNDOWN HEIGHT (INCHES)										
Barley		-	-	-	8		4 to 6				
Barnyardgrass		2 to 3	3 to 4	-	6		4 to 6				
Crabgrass spp.		2 to 3	-	-	6		4 to 6				
Foxtail spp.	Does not control these species	2 to 3	3 to 4	2 to 6	8		4 to 6		Does not control these species		
Johnsongrass, seedling		2 to 3	-	-	8		4 to 6				
Panicum, fall		2 to 3	3	2 to 6	6		4 to 6				
Sandbur, field		-	-	-	8		4 to 6				
Shattercane		2 to 3	-	-	8		4 to 6				
Wheat, volunteer		-	-	-	6		4 to 6				
Witchgrass		2 to 3	-	-	6		4 to 6				
BROADLEAVES		MAXIMUM BURNDOWN HEIGHT (INCHES)									
Buffalobur			-			6	6	4 to 6		4 to 6	-
Chickweed, common		6			6	8	4 to 6	4 to 6	2		
Cocklebur, common		6			6	8	4 to 6	4 to 6	6		
Dandelion, common		6 dia ^a			2 dia ^b	6 dia ^a	4 dia ^d	6 dia ^a	2 dia		
Henbit		4			4	4	4 to 6	4 to 6	-		
Horseweed/marestail		6 ^{ac}			4 ^b	6	3	6 ^a	2 ^c		
Jimsonweed		6			6	6	4 to 6	4 to 6	2		
Kochia*		4 ^{ac}			4	4	4	4	-		
Ladysthumb		6			6	8	4 to 6	4 to 6	3		
Lambsquarters, common		6			6	8	4 to 6	4 to 6	2		
Lettuce, prickly		6			4	6	4 to 6	4 to 6	2		
Mallow, Venice		6			6	6	4 to 6	4 to 6	-		
Morningglory spp.		6			2	4	2	4	4		
Mustard spp.		6			6	8	4 to 6	4 to 6	2		
Pennycress, field		6			6	6	4 to 6	4 to 6	2		
Pigweed, spp. (annual)		6			6	8	4 to 6	4 to 6	3		
Ragweed, common		6			6 ^b	8	4 to 6	4 to 6	2		
Ragweed, giant		6 ^{ac}			4 ^b	6	4	6	2		
Shepherdspurse		6			6	6	4 to 6	4 to 6	-		
Sida, prickly		6			4	4	4	4	1		
Smartweed, Pennsylvania		6			6	8	4 to 6	4 to 6	3		
Sunflower, common		6			6	6	4 to 6	4 to 6	4		
Thistle, Russian		4 ^{ac}			2 to 4 ^{bc}	6	4	4 to 6	3 ^c		
Velvetleaf		6			6	8	4 to 6	4 to 6	3		
Waterhemp spp.		6			6	8	4 to 6	4 to 6	3		

^a Use 2,4-D LVE at 0.5 pound active ingredient per acre.
^b Use a minimum Roundup/Roundup Ultra rate of 16 fl oz/A and a minimum Touchdown rate of 10.6 fl oz/A.
^c Use SENCOR DF at 4 oz/A for optimum control.
^d Suppression only.
* Does not control triazine resistant biotypes.

696

SENCOR DF 75% Dry Flowable Herbicide

RESIDUAL WEED CONTROL

SENCOR DF burndown programs can be used as part of a full season weed control program in both field corn and soybeans when, 1) applied as a tank mixture with residual herbicides, or 2) followed with a postemergence weed control program, which is registered for use on that crop.

For residual control, SENCOR DF burndown programs may include tank mixes with the following herbicides or combination of herbicides:

Field Corn

Alachlor	Broadstrike + Dual	Extrazine II	Linuron	Ramrod
Atrazine	Broadstrike Plus	Frontier	Lorox	Ramrod/Atrazine
Banvel	Bullet	Guardsman	Marksman	Simazine
Bicep	Clarity	Harness	Pentagon	Surpass
Bicep II	Cycle	Harness Xtra	Prowl	Surpass 100
Bicep Lite	Dual	Lariat	Pursuit ^a	Topnotch
Bladex	Dual II	Linex	Pursuit Plus ^a	

^a Use only Pursuit resistant/tolerant corn hybrids.

Soybeans

Alachlor	Detail	Gemini	Preview	Scepter
Broadstrike + Dual	Dual	Linuron	Prowl	Sencor ^b
Canopy	Dual II	New Lorox Plus	Pursuit	Squadron
Command	Frontier	Pentagon	Pursuit Plus	Turbo

^b SENCOR used (alone and in tank-mixes) on soybeans at higher labeled rates than those listed for burndown weed control will also provide residual control of those weeds listed in the "Weeds Controlled by SENCOR and SENCOR Tank Mix Combinations" section of the SENCOR label.

Refer to the individual product labels for additional information, precautions, and limitations.

