

PM-25

Reg # 3125-314

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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 247147

Application for Pesticide - Section I

1. Company/Product Number 3125-314
2. EPA Product Manager Robert J. Taylor
3. Proposed Classification None Restricted
4. Company/Product Name Sencor 4 Flowable Herbicide
5. Name and Address of Applicant Bayer Corporation
6. Expedited Review In accordance with FIFRA Section 3(c)(3)...

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated. Me Too Application. 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: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container, 3. Location of Net Contents Information, 4. Size(s) Retail Container, 5. Location of Label Directions, 6. Manner in Which Label is Affixed to Product

Section - IV

1. Contact Point Brian A. Dehart, Registration Specialist, Telephone No. (816) 242-2381
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.
2. Signature John S. Thornton
3. Title Manager, Registrations
4. Typed Name John S. Thornton
5. Date 4/19/96
6. Date Application Received (Stamped)

Sencor 4

314-8725.YLD

U.S. LABEL

Base Pre-Reg. (8725)

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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)
Supersedes Pre-Reg Draft: 07/14/95

Sencor® 4

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 41%

INERT INGREDIENTS: 59%

100%

EPA Reg. No. 3125-314

AMENDMENT To Previously Registered Labeling

ADD THE FOLLOWING:

BURNDOWN WEED CONTROL - Field Corn and Soybeans

SENCOR 4 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 4 burndown tank mixes can be applied before planting or prior to crop emergence in the following areas:

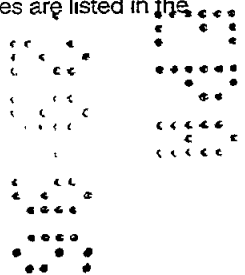
Field Corn:

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 4 may be applied up to 30 days prior to planting or preemergence. Apply only by ground equipment when SENCOR 4 is used for burndown of existing vegetation in conservation tillage systems. SENCOR 4 and tank mix partner burndown rates are listed in the following three tables.



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| CROPS | APPLICATION TIMING | SENCOR 4 RATE (OZ/A) |
|---|---------------------------|----------------------|
| Field corn Iowa Kansas Missouri Nebraska South Dakota | Preplant 0 to 30 days | 3 to 8 |
| | Preemergence | |
| Field corn Illinois Indiana Kentucky Michigan Minnesota Ohio Wisconsin | Preplant 10 to 30 days | 3 to 8 |
| | Preplant 0 to 9 days | 3 to 6 |
| | Preemergence | |
| Soybeans | Preplant 0 to 30 days | 3 to 8 |
| | Preemergence | |

| PRODUCT | RATE | DIRECTIONS AND REMARKS |
|---|--|---|
| SENCOR 4 + 2,4-D LVE | 3 to 8 fl 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 4 + Gramoxone Extra | 3 to 8 fl 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 4 + Gramoxone Extra + 2,4-D LVE | 3 to 8 fl 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 4 + Roundup/ Roundup Ultra or Touchdown | 3 to 8 fl 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 4 + Roundup/ Roundup Ultra or Touchdown + 2,4-D LVE | 3 to 8 fl 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. | | |

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| TABLE 3. SENCOR 4 PLUS TANK MIX PARTNER BURNDOWN RATES — SOYBEANS ONLY | | |
|---|---|---|
| PRODUCT | RATE | DIRECTIONS AND REMARKS |
| SENCOR 4 + 2,4-DB | 3 to 8 fl 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 4 + Fusion + 2,4-D LVE | 3 to 8 fl 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 - 0.5% v/v) of spray solution. Refer to the Fusion label for additional information. |
| SENCOR 4 + Poast Plus + 2,4-D LVE | 3 to 8 fl oz/A + 8 to 12 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 4 + Select + 2,4-D LVE | 3 to 8 fl 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 1-2 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.

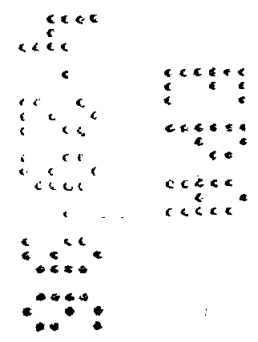
Field Corn:

1. Do not apply on coarse textured soils with less than 1.5% organic matter.
2. Do not apply more than 6 fl oz of SENCOR 4 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 8 fl oz SENCOR 4 (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 4 may only be used in hybrid seed corn production fields if both inbred parents are known to be tolerant to SENCOR 4.

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 4 may be harvested for silage or grain 60 days after treatment. Soybean vines or hay treated with SENCOR 4 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.



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Weeds controlled: SENCOR 4 in tank mixtures with the above herbicides will provide burndown control of the weeds listed below.

| WEEDS CONTROLLED BY BURNDOWN RATES OF SENCOR 4 | | | | | | | | | |
|---|---|---|--------------------|----------------------|-----------------------------------|---|--------------------|-----------------------------|--------------------------------|
| WEEDS CONTROLLED | SENCOR 4 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 | Does not control these species | - | - | - | 8 | | 4 to 6 | | Does not control these species |
| Barnyardgrass | | 2 to 3 | 3 to 4 | - | 6 | | 4 to 6 | | |
| Crabgrass spp. | | 2 to 3 | - | - | 6 | | 4 to 6 | | |
| Foxtail spp. | | 2 to 3 | 3 to 4 | 2 to 6 | 8 | | 4 to 6 | | |
| 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 ^{bc} | | | 4 ^b | 6 | 3 | 6 ^a | 2 ^c | |
| Jimsonweed | 6 | | | 6 | 6 | 4 to 6 | 4 to 6 | 2 | |
| Kochia ^a | 4 ^{bc} | | | 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 ^{bc} | | | 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 ^{bc} | | | 2 to 4 ^{bc} | | 6 | 4 | 4 to 6 3 ^c | |
| Velvetleaf ^a | 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 4 at 6 fl oz/A for optimum control.
^d Suppression only.
^{*} Does not control triazine resistant biotypes.

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RESIDUAL WEED CONTROL

SENCOR 4 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 4 burndown programs may include tank mixes with the following herbicides or combination of herbicides:

Field Corn

| | | | | |
|------------|--------------------|--------------|---------------------------|-----------------|
| Alachlor | Broadstrike + Dual | Extrazine II | Linuron | Ramond |
| Atrazine | Broadstrike Plus | Frontier | Lorox | Ramdor/Atrazine |
| Banvei | Bullet | Guardzman | 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.

