

PM 25

3125-314

1-21-98

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314-8926.YLD

Base Pre-Reg (8926)

U. S. LABEL

Reason To Issue: To add tolerant and sensitive varieties of winter wheat.

Date of Draft: 03/27/97 (Pre-Reg) (D)
Supersedes Pre-Reg Draft Dated: 02/21/96

Sencor® 4

Flowable Herbicide

| | |
|----------------------------------------------------------------------------|------|
| 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 Currently Registered Labeling

REVISE TO READ AS FOLLOWS:

CEREALS

(Spring and Winter Barley and Winter Wheat)

SENCOR 4 herbicide is recommended for control or suppression of certain grasses and broadleaf weeds when applied postemergence to spring and winter barley or winter wheat. SENCOR 4 alone and several tank mixture treatments are recommended for use in the following states: AR, GA, ID, IL, IN, KS, KY, LA, MS, MO, MT, NV, OH, OK, OR, TN, TX, UT, WA.

Mixing: See the "General Information" section of this label for specific mixing procedures. When tank mixing, carefully follow the instructions on this label. Refer to the other product labels registered for use in barley and winter wheat for additional use directions, rates, weeds controlled and restrictions.

Application: SENCOR 4 may be applied by aerial or ground application equipment. Use a minimum spray volume of 2 gpa by air and 10 gpa by ground. Uniform spray coverage is necessary to obtain optimum weed control and to minimize potential for crop injury. Do not exceed rates specified on this label. Do not apply SENCOR 4 through any type of irrigation equipment. Apply SENCOR 4 when the crop is healthy and actively growing. SENCOR 4 may be applied more than once per crop season. Allow a minimum of 21 days between applications if wheat is actively growing or allow 45 days between applications if wheat is growing in adverse conditions, has entered dormancy or is stressed due to frost damage, disease,

drought or excessive moisture. Do not use on soils containing less than 0.75% organic matter. Do not apply more than a total of 16 fluid ounces SENCOR 4 (8 ounces active ingredient) per acre per year. On irrigated cereals, do not apply more than 0.5 inch of water for the first irrigation, the maximum amount for each additional irrigation should not exceed 1 inch. Allow a minimum of 14 days between the first irrigation and subsequent irrigations.

Performance Factors: Weed control may not be observed for 2 to 4 weeks under normal growth conditions and for 4 to 6 weeks under very dry conditions. Moisture (at least 1/2 inch) is required within 2 to 3 weeks after application to move SENCOR into the weed root zone. Lack of adequate moisture after application may result in poor or erratic weed control. Control or suppression of listed weeds is dependent on weed size at time of application. Control or suppression may be reduced if broadleaf weeds are taller than 1 inch or grasses have more than 2 leaves.

Tank Mixtures: SENCOR 4 may be tank mixed with Ally, Amber, Finesse, Glean FC, Harmony Extra, 2,4-D, MCPA, Igran, Barvel/Banvel SGF, Bronate or Buctril herbicides. A nonionic surfactant containing at least 80% active ingredient may be used in SENCOR 4 tank mixes with sulfonyleurea herbicides (Ally, Amber, Finesse, Glean FC and Harmony Extra). Do not

Sencor 4

ACCEPTED

JAN 21 1998

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 3125-314

Text being added is highlighted by redlining

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use a crop oil concentrate or any adjuvant containing vegetable or petroleum oils with any SENCOR 4 mix as crop injury may result. Additional pesticides may also be tank mixed with SENCOR 4 unless specifically prohibited on the mix products' label. In some instances, combinations with organophosphate insecticides may cause temporary leaf yellowing and/or crop injury, especially when widely fluctuating day/night temperatures occur near application. Always refer to the other product labels registered for use on cereals for additional directions, rates and weed species controlled. Observe all precautions and limitations on labeling of all products used in mixtures.

Feeding Restrictions: Do not graze wheat within 14 days of SENCOR 4 application or harvest grain within 21 days after last application. Do not graze or harvest barley before crop maturity. For tank mix combinations, follow the most restrictive label.

Special Precautions: Cereal Injury - Crop injury may occur if SENCOR 4 is applied:

1. When the crop is under stress such as winter kill, frost damage, disease, drought or excessive moisture, severe grazing, or when these conditions follow the application.
2. In combination with fluid fertilizer especially with the addition of surfactant,
3. Prior to the growth stage specified on this label.
4. To soils high in lime or sodium, a pH greater than 7.7, calcareous, gravelly, thinly covered or exposed subsoil areas.
5. To fields where cereal seeds have been planted less than 1 inch deep.
6. To a non-winter hardy wheat or barley variety.
7. To a sensitive wheat or barley variety as listed below.
8. To frozen soil or crop still in winter dormancy.

Cereal Rotations Following Potatoes Treated with SENCOR 4: If planting a sensitive cereal variety (listed under the wheat and barley variety tolerance portion of this label), following potatoes treated with SENCOR 4 or metribuzin containing products, refer to the potato section of the SENCOR 4 label for special cultural practices to follow.

APPLICATION RECOMMENDATIONS

SENCOR 4 alone or in a tank mix with labeled broadleaf herbicides may be applied by aerial or ground spray equipment as a broadcast postemergence spray.

| RECOMMENDED POSTEMERGENCE BROADCAST APPLICATIONS OF SENCOR 4 | | | | |
|--------------------------------------------------------------|--------------|-------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CROP GROWTH STAGE | SOIL TEXTURE | SENCOR 4 RATE (fl oz/A) | | REMARKS |
| | | % ORGANIC MATTER | | |
| | | 0.75 TO 2.0 | OVER 2.0 | |
| 2 Leaf To 2 Tiller | Coarse | 1.5 to 3 | 1.5 to 4.5 | Use these rates on crops with secondary roots smaller than 1 inch. For dryland winter wheat (nonirrigated), apply the highest recommended rate to achieve maximum weed suppression/control. |
| | Medium | 1.5 to 4.5 | 3 to 4.5 | |
| | Fine | 3 to 4.5 | 3 to 6 | |
| 3 Tiller To 4 Tiller | Coarse | 4.5 to 6 | 6 to 7.5 | Do not apply within 2 weeks after grazing or breaking of winter dormancy. Apply after the crop is at or beyond the 3 tiller growth stage but before jointing. Secondary roots should be developed and larger than 1 inch long. Do not apply before 75 days after planting. |
| | Medium | 6 to 7.5 | 7.5 to 9 | |
| | Fine | 7.5 to 9 | 7.5 to 9 | |
| Over 4 Tillers | Coarse | 6 to 9 | 7.5 to 12 | For dryland winter wheat (nonirrigated), apply the highest recommended rate to achieve maximum weed suppression/control. GEORGIA ONLY: Wheat must be planted before November 15 in the Piedmont area and Northern part of the state, and before December 1 in the Coastal Plain area. |
| | Medium | 6 to 12 | 7.5 to 12 | |
| | Fine | 7.5 to 12 | 12 to 16 | |

WHEAT AND BARLEY VARIETAL TOLERANCE*

Wheat and barley varieties vary in their tolerance to SENCOR 4. Varieties below are tolerant to and are recommended for use with SENCOR 4:

Winter Wheat: Abe, AgriPro Mason, AgriPro Shiloh, Arthur, AS 7846, AS 7853, Baker Seed 32, Barbie VI, Basin, Batum, Bayles, Becker, Binte V, Buchshot DS 2368, Caldwell,

Cardinal, Cashup, Centurk, Cherokee, Cheyenne, Clark, Coker 747, Coker 762, Coker 797, Coker 68-15, Coker 9134, Coker 9543, Coker 9904, Coker 9907, Daws, DB 533W, DB 562W, DB 580W, ~~Delta King 502~~, ~~Delta King 9027~~, Dixie 952, Doublecrop, Dusty, Dyna-gro 426, Dynasty, Excel, Faro, FFR 525W, Florida 302, FS 432, FS 433, FS 435, Gains, Garst 64, Georgia 100, Genie V, Hatton, Hawk, Hill 81, Howell,

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Hunter, Hyak, Hyslop, Katie VI, KY 16-2, Larned, Lewis 833, Lewjain, Lisa, Longhorn, Luke, Madison, Magnum, Malcom, McDermid, McNair 1003, McNair 1813, Molly, Moro, Neely, Nelson, Newton, Norstar, Norwin, Nugaines, Oasis, Omega 78, Paha, Peck, Pike, Pioneer 2157, Pioneer 2180, Pioneer 2510, Pioneer 2545, Pioneer 2548, Pioneer 2550, Pioneer 2552, Pioneer 2555, Pioneer 2566, Pioneer 2571, Pioneer 2580, Pioneer 2684, Quantum 577, Redwin, Rocky, Saluda, Sawyer, SC 104, Sioumland, Sprague, Southern Belle, Stacy, Stallion, Stephens, TAM W101, TAM 105, TE 877, TE 2548, TE SR204, ~~TR 8555, TR 8557, TR 8768~~, Tiber, Tomahawk, Traveler, Tres, Tyee, Tyler, Verne, Victory, Wakefield, Wanser, Weston, Winalta, Wrangler.

Barley: Advance, Boyer, Clark, Compana, Hannchen, Hector, Hesk, Hudson, Lud, Luther, Kamiak, Klages, Olympic, Pirolina, Steptoe and Triumph.

The following cereal varieties are sensitive to SENCOR 4 and are not recommended for use:

Winter Wheat: ~~AgriPro, Clemens~~, AT 90W, AT 91W, Arapaho, Baker Seed 33, Century, Cimarron, Coker 833, Coker 916, Coker 983, Coker 9024, Coker 9105, Coker 9323, ~~Coker 9663~~, Choker 9474, Choker 9835, Choker 9766,

Choker 9877, ~~EK 102, EK 114~~, FAR 555, Florida 304, Freedom, FS 417, FS 423, FS 425, FS 430, Gore, ~~Hazen~~, Hickory, ~~Jackson~~, Julie III, KY-49-25, Linden, ~~Madison~~, Mesa, Mustang, Pacer, Pioneer 2551, Pioneer 2163, Pioneer 2643, ~~Pioneer 2691~~, Princeton 733, PER W71, PER 226, PER 278, Rosen, Savannah, Sierra, TAM 107, TR 101, TR 1011, TR 8822, Triumph 64, Vona, Wings, Winridge, Yamhill.

Spring/Durum Wheat: Avoid use on Spring wheat and Durum wheat varieties.

Barley: Glenn, Morex, Moravian 3, Larker, Summit, Bracken, Anheuser Busch B2601 and varieties with Morex parentage.

Varieties Not Listed: To avoid possible crop injury on any variety not mentioned in this label, contact a Bayer representative or herbicide expert for a variety recommendation prior to treatment or treat a small strip of the unlisted variety with the recommended SENCOR 4 rate to ascertain crop tolerance before treating an entire field.

* Abbreviated names of vendors: AS (Agseco), AT (Agratech), DB (Diener Bros.), FS (Growmark FS), PER (Hybritech), SC (J.M. Schultz), TE (Terra), and TR (Terral).

WEEDS CONTROLLED

Used at recommended rates, SENCOR 4 will control many annual broadleaf weeds. Control is best when applied to young, actively growing weeds. Weeds controlled by SENCOR 4 include:

| | | | |
|--------------------------|---------------------------|----------------------|-------------------------------------|
| Bittercress | Evening Primrose, Cutleaf | Knotweed, Prostrate | Pigweed, spp. |
| Catchfly, Conical (Sand) | Falsefax, Smallseed | Lambsquarter, Common | Pineappleweed |
| Catchweed (Madwort) | Fiddleneck, Tarweed | Lettuce, Miners | Polemonium, Annual (Jacob's Ladder) |
| Chickweed, Common | Filaree, Redstem | Mustard, Blue | Radish, Wild |
| Chickweed, Mouseear | Geranium, Carolina | Mustard, Wild | Shepardspurse |
| Corncockle | Gromwell, spp. | Pennycress, Field | Speedwell, Ivyleaf |
| Dogfennel (Mayweed) | Henbit | Pepperweed, Virginia | Turnip, Wild |

WEEDS SUPPRESSED

SENCOR 4 control of the following weeds varies from poor to excellent depending on time of application, stage of growth at application, temperatures and soil moisture conditions following treatment. For maximum effect on these weeds, apply the highest recommended rate at the earliest growth stage timing for each particular soil type and organic matter. Suppression is a reduction in weed size and growth as compared to a non-treated area in the same field.

| BROADLEAVES | | GRASSES | | | |
|------------------|-----------------------------|---------------------|--------------------|---------------|----------------------|
| Buckwheat, Wild* | Mustard, Tumble (Jim Hill)* | Barley, Hare (Wild) | Bluegrass, Bulbous | Cheat* | Whitlowgrass, Spring |
| Buttercup, spp. | Tanysmustard | Barley, Little | Brome, Downy* | Foxtail, spp* | (Vernal) |
| Cowcockle | Thistle, Russian | Blackgrass | Brome, Japanese* | Oat, Wild* | Windgrass |
| Kochia* | Vetch, Winter | Bluegrass, Annual | Brome, Rippgut* | Rescuegrass* | |
| Lettuce, Prickly | | | | | |

* Use the highest recommended SENCOR 4 rate for maximum weed suppression.

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