

SENCOR 4

314-8592.YLD

3125-314

10/28/94

U.S. LABEL

Base Pre-Reg. (8592)

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.

Date of Draft: 07/14/95(Pre-Reg)(D)
Supersedes Pre-Reg Draft: 10/28/94

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 CURRENTLY REGISTERED LABELING

ADD THE FOLLOWING:



ACCEPTED
OCT 17 1995
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under:
EPA Reg. No. 3125-314

DENSITY

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 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.

TABLE 1. SENCOR SOLUPAK Burndown Rates -- Field Corn and Soybeans

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	

TABLE 2: SENCOR 4 PLUS TANK MIX PARTNER BURNDOWN RATES

FIELD CORN OR SOYBEANS		
Product	Rate	Directions and Remarks
SENCOR 4 + 2,4-D LVE	3 to 8 fl oz/A ^a + 1/4 to 1 lb a/A	In soybeans, apply at least 7 days preplant when using 2,4-D LVE at 1/4 to 1/2 lb a/A and at least 30 days preplant with rates greater than 1/2 lb a/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 ^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 ^a + 24 to 48 fl oz/A + 1/4 to 1 lb a/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	3 to 8 fl oz/A ^a + 12 to 24 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. 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. Any glyphosate formulation registered and labeled for use in field corn or soybeans may be tank mixed with SENCOR.
SENCOR 4 + Roundup + 2,4-D LVE	3 to 8 fl oz/A ^a + 12 to 24 fl oz/A + 1/4 to 1 lb a/A	For this tank mix follow the Directions and Remarks Sections above for SENCOR + 2,4-D LVE and SENCOR + Roundup, paying special attention to planting restrictions with 2,4-D LVE. Use the nonionic surfactant and ammonium sulfate recommendation under the SENCOR + Roundup tank mix. Do not use crop oil concentrate.
<p>^a 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.</p>		

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SENCOR 4 Flowable Herbicide

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 3/16 lb a/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 a/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 a/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 a/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.

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 + 2,4-D LVE	Gramoxone Extra	Gramoxone Extra + 2,4-D LVE	2,4-DB
Annual Grasses	Maximum Burndown Height (inches)								
Barley	-	-	-	-	8		4-6		
Barnyardgrass	2-3	3-4	-	-	6		4-6		
Crabgrass spp.	2-3	-	-	-	6		4-6		
Foxtail spp.	2-3	3-4	2-6	-	8		4-6		
Johnsongrass, seedling	2-3	-	-	-	8		4-6		
Panicum, fall	2-3	3	2-6	-	6		4-6		
Sandbur, field	-	-	-	-	8		4-6		
Shattercane	2-3	-	-	-	8		4-6		
Wheat, volunteer	-	-	-	-	6		4-6		
Witchgrass	2-3	-	-	-	6		4-6		
Broadleaves	Maximum Burndown Height (inches)								
Buffalobur	-	-	-	-	6	6	4-6	4-6	-
Chickweed, common	-	6	-	-	6	8	4-6	4-6	2
Cocklebur, common	-	6	-	-	6	8	4-6	4-6	6
Dandelion, common	-	6 dia ^a	-	-	2 dia ^b	6 dia ^a	4 dia ^d	6 dia ^a	2 dia
Henbit	-	4	-	-	4	4	4-6	4-6	-
Horseweed/marestail	-	6 ^c	-	-	4 ^b	6	3	6 ^a	2 ^c
Jimsonweed	-	6	-	-	6	6	4-6	4-6	2
Kochia ¹	-	4 ^c	-	-	4	4	4	4	-
Ladysthumb	-	6	-	-	6	8	4-6	4-6	3
Lambsquarters, common	-	6	-	-	6	8	4-6	4-6	2
Lettuce, prickly	-	6	-	-	4	6	4-6	4-6	2
Mallow, Venice	-	6	-	-	6	6	4-6	4-6	-
Morningglory spp.	-	6	-	-	2	4	2	4	4
Mustard spp.	-	6	-	-	6	8	4-6	4-6	2
Pennycress, field	-	6	-	-	6	6	4-6	4-6	2
Pigweed, spp. (annual)	-	6	-	-	6	8	4-6	4-6	3
Ragweed, common	-	6	-	-	6 ^b	8	4-6	4-6	2
Ragweed, giant	-	6 ^c	-	-	4 ^b	6	4	6	2
Shepherdspurse	-	6	-	-	6	6	4-6	4-6	-
Sida, prickly	-	6	-	-	4	4	4	4	1
Smartweed, Pennsylvania	-	6	-	-	6	8	4-6	4-6	3
Sunflower, common	-	6	-	-	6	6	4-6	4-6	4
Thistle, Russian	-	4 ^c	-	-	2-4 ^{bc}	6	4	4-6	3 ^c
Velvetleaf	-	6	-	-	6	8	4-6	4-6	3
Waterhemp spp.	-	6	-	-	6	8	4-6	4-6	3

^a Use 2,4-D LVE at 0.5 pound active ingredient per acre.
^b Use a minimum Roundup rate of 16 fl oz/A.
^c Use SENCOR 4 at 6 fl oz/A for optimum control.
^d Suppression only.
¹ Does not control triazine resistant biotypes.

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

^a Use only Pursuit resistant/tolerant corn hybrids.

Soybeans

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

^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.

10/27/94

Reason to Issue: To revise claims for preplant/
preemergence use on field corn.
08/19/94 Draft: Revise according to internal
field comments. 10/27/94 Draft: Correct
state list in table.

Date of Draft: 10/27/94(Pre-Reg)(S)
Supersedes Pre-Reg Draft Dated: 08/19/94
and 08/04/94

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

SENCOR 4

AMENDMENT TO CURRENTLY REGISTERED LABELING

REVISE TO READ AS FOLLOWS:

ACCEPTED

OCT 17 1994

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



FIELD CORN

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

SENCOR 4 is recommended for additional residual control of certain broadleaf weed species in corn when applied as a tank mix combination with both grass and broadleaf herbicides registered and recommended for use in field corn. SENCOR 4 can be tank mixed with recommended rates of the following herbicides:

Alachlor	Cycle	Marksman
Atrazine	Dual	Prowl
Banvel	Dual II	Pursuit*
Bicep	Extrazine II	Pursuit Plus*
Bicep II	Frontier	Ramrod
Bicep Lite	Guardman	Ramrod/Atrazine
Bladex	Harness Plus	Simazine
Broadstrike + Dual	Lariat	Surpass
Broadstrike Plus	Linex	Surpass 100
Bullet	Linuron	
Clarity	Lorox	

*Use only on Pursuit resistant/tolerant corn hybrids ("MI corn").

Application: SENCOR 4 may be applied to field corn preplant without incorporation up to 30 days prior to planting or preemergence. Applications may be made by either ground or aerial equipment. For tank mixes, follow the most restrictive application methods of all products used.

Special precautions:

1. Do not apply more than 8 fluid ounces SENCOR 4 (0.25 pound active ingredient) per acre per growing season.
2. Do not apply on soils having pH 7.0 or greater.
3. Corn seed should be planted a minimum of 1-1/2 inches deep.
4. SENCOR 4 may only be used in hybrid seed corn production fields if both inbred parents are known to be tolerant to SENCOR 4.
5. Not recommended for use on muck soils as reduced weed control may result.
6. Observe all precautions and limitations on labeling of all products used in tank mixes.

Feeding restrictions: Corn treated with SENCOR 4 may be harvested for silage or grain 60 days after treatment. For tank mixes, follow the most restrictive preharvest interval of all products used.

Weeds controlled:* SENCOR 4 will aid in the residual preemergence control of the following weed species when tank mixed with other registered grass and/or broadleaf corn herbicides:

Horseweed/marestail	Ragweed, common
Ladysthumb	Smartweed, Pennsylvania
Lambsquarters, common	Sunflower
Pigweed spp.	Waterhemp, Tall
	Velvetleaf

* For control of emerged weeds refer to the "Burndown Weed Control" section of the SENCOR label.

SENCOR 4 FIELD CORN RATE RECOMMENDATIONS			
States	Application Timing	SENCOR 4 Fl Ozs/A	Remarks
Iowa Kansas Missouri Nebraska South Dakota	Preplant 0 to 30 days	3 - 8	Apply as a broadcast spray prior to corn emergence from the soil. Do not apply SENCOR 4 on coarse textured soils with less than 1.5% organic matter. Do not apply more than 6 fl. oz. SENCOR 4 per acre on soils with less than 2.0% organic matter.
	Preemergence		
Illinois Indiana Kentucky Michigan Minnesota Ohio Wisconsin	Preplant 10 to 30 days	3 - 8	For heavy weed infestations and/or early preplant applications, use the higher rates of SENCOR DF.
	Preplant 0 to 9 days	3 - 6	
	Preemergence		

Consult the label of herbicide tank mix partners to determine proper use rates for the other product(s).

U. S. LABEL

Reason to Issue: To revise claims for use on barley and wheat. 07/10/95 Draft: Revise in accordance with internal comments.

Date of Draft: 07/10/95 (Pre-Reg)(D) Supersedes Pre-Reg Draft Date: 06/16/95

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

SENCOR® 4

Flowable Herbicide

SENCOR 4

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. If

SENCOR 4 is applied more than once per crop

season, allow a minimum of 45 days between applications. 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 ½ 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, Arber, Finesse, Glean EC, Harmony Extra, 2,4-D, MCPA, Igran, Banvel/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 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 DF: If planting a sensitive cereal variety (listed under the wheat and barley variety tolerance portion of this label), following potatoes treated with SENCOR DF or metribuzin containing products, refer to the potato section of the SENCOR DF 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 FLUID OUNCES PER ACRE		REMARKS
		% ORGANIC MATTER 0.75 TO 2.0	OVER 2.0	
2 Leaf To 2 Tiller	Coarse Medium Fine	1.5 to 3 1.5 to 4.5 3 to 4.5	1.5 to 4.5 3 to 4.5 3 to 6	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.
3 Tiller To 4 Tiller	Coarse Medium Fine	4.5 to 6 6 to 7.5 7.5 to 9	6 to 7.5 7.5 to 9 7.5 to 9	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.
Over 4 Tillers	Coarse Medium Fine	6 to 9 6 to 12 7.5 to 12	7.5 to 12 7.5 to 12 12 to 16	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.

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, Arthur, AS 7846, AS 7853, Baker Seed 32, Barbe VI, Basin, Batum, Bayles, Becker, Binte

V, Buchshot DS 2368, Caldwell, Cardinal, Cashup, Centurk, Cherokee, Cheyenne, Clark, Coker 747, Coker 762, Coker 797, Coker 88-15, Coker 9134, Coker 9543, Coker 9904, Coker 9907, Daws, DB 533W, DB 562W, DB 580W, Doublecrop, Dusty, Dyna-gro 428, 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, Hunter, Hyak, Hyslop, Katie VI, KY 16-2, Lamed, Lewis 833, Lewjain, Lisa, Longhorn, Luke, Madsen, Magnum, Malcom, McDermid, McNair 1003, McNair 1813, Molly, Moro, Neely, Nelson, Newton, Norstar, Norwin, Nugaines, Oasis, Omega 78, Paha, Peck, Pike, PI 2157, PI 2180, PI 2510, PI 2545, PI 2548, PI 2550, PI 2552, PI 2555, PI 2566, PI 2571, PI 2580, PI 2624, Quantum 577, Redwin, Rocky, Saluda, Sawyer, SC 104, Siouxland, Sprague, Southern Belle, Stacy, Stallion, Stephens, TAM W101, TAM 105, TE 877, TE 2548, TE SR204, 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: AT 90W, AT 91W, Arapaho, Baker Seed 33, Century, Cimarron, Coker 833, Coker 916, Coker 983, Coker 9024, Coker 9105, Coker 9123, Choker 9474, Choker 9835, Choker 9766, Choke 9877, FAR 555, Florida 304, Freedom, FS 417, FS 423, FS 425, FS 430,

Gore, Hickory, Julie III, KY-49-25, Linden, Mesa, Mustang, Pacer, PI XW 522, PI 2551, PI 2163, 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), PI (Pioneer), 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	Falseflax, Smallseed	Lettuce, Miners	Polemonium, Annual (Jacob's Ladder)
Catchfly, Conical (Sand)	Fiddleneck, Tarweed	, Prickly	Radish, Wild
Catchweed (Madwort)	Filaree, Redstem	Mustard, Blue	Shepardspurse
Chickweed, Common	Geranium, Carolina	, Wild	Speedwell, Ivyleaf
, Mouseear	Gromwell, spp.	Pennycress, Field	Turnip, Wild
Corncockle	Henbit	Pepperweed, Virginia	
Dogfennel (Mayweed)	Knotweed, Prostrate	Pigweed, spp.	
Evening Primrose, Cutleaf	Lambsquarter, Common	Pineappleweed	

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 ^a	Tanysmustard	Barley, Hare (Wild)	Bluegrass, Bulbous	Cheat ^a	Whitlowgrass,
Buttercup, spp.	Thistle, Russian	, Little	Brome, Downy ^a	Foxtail, spp. ^a	Spring (Vernal)
Cowcockle	Vetch, Winter	Blackgrass	, Japanese ^a	Oat, Wild ^a	Windgrass
Kochia ^a		Bluegrass, Annual	, Ripgut ^a	Rescuegrass ^a	
Mustard, Tumble (Jim Hill) ^a					
^a Use the highest recommended SENCOR 4 rate for maximum weed suppression.					

Bayer Corporation
 Crop Protection Products
 Box 4913, Kansas City, MO 64120-0013

