

PM 25

3125-314

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314-8246.YLD

U.S. LABEL

Base Pre-Reg. (8246)

REASON TO ISSUE: Add claims for postemergence use on field corn. 07/21/94 Draft: Revise in line with internal comments.

Date of Draft: 07/21/94(Pre-Reg)(H)  
Supersedes Draft Dated: 06/13/94

# SENCOR® 4

## Flowable Herbicide

For control of certain grasses and broadleaf weeds

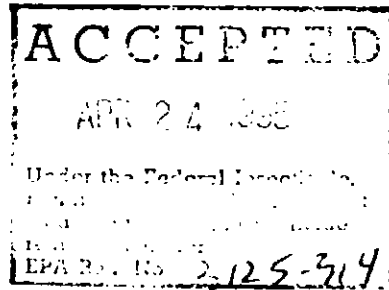
ACTIVE INGREDIENT:

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:



MILES 

SENCOR 4 F

FIELD CORN

**POSTEMERGENCE APPLICATION**

SENCOR 4 is recommended for control of selected broadleaf weeds when applied as a tank mix combination with certain broadleaf herbicides presently registered and recommended for postemergence use in field corn. Herbicides which may be tank mixed with SENCOR 4 include:

Atrazine	2,4-D
Banvel	Clarity
Basagran	Marksman
Laddok	Pursuit*
Buctril/Buctril Gel	

\* Use only Pursuit resistant/tolerant corn hybrids (IMI-Corn).

**APPLICATION:** SENCOR 4 may be applied to field corn after crop emergence until just prior to tasseling. Broadcast applications may be made with ground or aerial equipment. For optimum weed control, apply treatments when weeds are small and actively growing, but before reaching the maximum heights listed in the Weeds Controlled table.

**POSTEMERGENCE BROADCAST APPLICATION**

**Ground Application:** Adjust nozzle height above crop and weed canopy to ensure uniform spray coverage. Gallonage should be increased with increasing weed size and population density.

For tank mixes of SENCOR 4 plus atrazine, Basagran, Laddok, Buctril, Pursuit, or 2,4-D amine formulations, use flat fan nozzles spaced a maximum of 20 inches apart. Best results are achieved using a minimum spray volume of 10 gallons per acre and spray pressure from 20 to 40 psi.

For SENCOR 4 tank mixes with Banvel, Clarity, Marksman, or 2,4-D low volatile ester formulations, use drift-reducing nozzles which are specifically designed to produce coarse sprays and reduce the amount of driftable fines. Additional measures which will help avoid potential drift to sensitive crops and plants include using a minimum spray volume of 20 gallons per acre and keeping spray pressures at or below 20 psi unless otherwise specified by the nozzle manufacturer.

For further precautions and additional instructions and recommendations, consult the tank mix partner's label.

**Aerial Application:** Apply in a minimum spray volume of 3 gallons per acre. For optimum spray coverage and distribution, use a minimum of 5 gallons per acre and a maximum pressure of 40 psi. Use a boom and nozzle configuration which will provide a uniform deposition pattern and coverage with low drift potential. Avoid overlaps to prevent potential crop injury. Do not apply near sensitive crops or sensitive plants growing near the treated area; Do not apply when wind speed is greater than 10 mph or when winds are moving toward sensitive crops or plants. To avoid drift hazards, applicator must

follow the most restrictive labeling of the products used in a tank mix.

**POST DIRECTED APPLICATION**

SENCOR 4 in tank mix combinations with Banvel, 2,4-D, or Buctril may be applied post directed to field corn. Use drop nozzles and appropriate spacing to direct spray below the corn whorl and upper leaves. The top of the target weed canopy must be sufficiently below the whorl and upper leaves of the crop to permit this application and provide adequate spray coverage. The height differential required between the crop and weed canopy will depend on the specific equipment used. Apply before tassel emergence. For further precautions and additional recommendations, refer to the appropriate tank mix partner's label.

**ADJUVANTS**

The adjuvant types listed below may be utilized with certain SENCOR 4 tank mix combinations. Consult the tank mix recommendations section for the appropriate adjuvant and rate. Use of non-recommended adjuvants or rates may result in severe leaf burn, crop stunting, and/or stand reduction. Use only adjuvants which are exempt from tolerance requirements under 40 CFR 180.1001.

UAN (urea ammonium nitrate) is commonly referred to as 28, 30, or 32% N.

Ammonium sulfate (spray grade) may be used as an alternative to UAN with certain tank mix combinations

Non-ionic surfactants should contain at least 80% active ingredient.

**DO NOT USE** crop oil concentrate (COC) or any adjuvant containing vegetable or petroleum oils with any SENCOR 4 tank mixtures as severe leaf burn, crop stunting, and/or stand reduction may occur.

**RAINFASTNESS**

SENCOR 4 will not reduce rainfastness of the recommended tank mix partners. Refer to the individual product labels for rainfastness recommendations.

**SPRAYER CLEANUP**

Refer to each tank mix partner's label and the Sprayer Cleanup section of the SENCOR 4 label for specific instructions on cleaning spray equipment. Special attention should be given to the required cleanup procedures for 2,4-D, Banvel, Clarity, and Marksman.

SENCOR 4 Flowable Herbicide

**SPECIAL PRECAUTIONS**

1. Do not use on corn grown for seed, sweet corn, popcorn, or white corn.
2. Do not apply more than 0.25 pounds a.i. metribuzin (8 fluid ounces SENCOR 4) per acre per use season.
3. Do not apply when field corn is under stress (see **Stress** statement below).
4. Do not use aerial applications if sensitive crops or plants are growing in the vicinity of the area to be treated.
5. Do not allow spray drift onto sensitive crops or plants.
6. Do not use on sand, loamy sand or sandy loam soils that have less than 0.5% organic matter.
7. Do not use on sand or loamy sand soils in Washington, Oregon or Idaho or crop injury may occur.
8. Observe all precautions and limitations on labeling of all products used in the tank mixtures.

**Stress** is any condition or combination of conditions which impairs normal crop growth. Weather, disease, insect damage, fertility or other factors may cause stress. Applications made before or after the corn is under stress from these factors or from periods of prolonged cool, wet and cloudy weather or widely fluctuating day and nighttime temperatures, may result in temporary leaf burn, yellowing and/or stunting of the crop. Recovery from damage is generally rapid with no lasting effects on new growth. Under extreme stress, stand reductions may occur.

**Feeding Restrictions:** Field corn treated with SENCOR 4 may be grazed or harvested for silage or grain 60 days after treatment. Follow the most restrictive preharvest interval on the labels of the products used in the tank mixtures.

**TANK MIX COMBINATIONS**

The SENCOR 4 tank mixtures listed below can be utilized for control of certain annual broadleaf weeds.



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SENCOR 4 Flowable Herbicide

SENCOR 4 POSTEMERGENCE BROADCAST RECOMMENDATIONS		
PRODUCT	RATE	DIRECTIONS AND REMARKS <sup>1</sup>
SENCOR 4 + 2,4-D Amine or 2,4-D LVE	3 fl oz/A + 1/2 - 1 pt/A <sup>1</sup> or 1/3 - 1/2 pt/A <sup>1</sup>	Apply as a broadcast spray during the interval from corn emergence until corn is 8 inches tall. Apply only to varieties known to be tolerant to 2,4-D. <b>DO NOT USE ADJUVANTS.</b> 2,4-D may cause injury to nearby sensitive crops. 2,4-D applications may result in brittle corn stalks, and winds or cultivation may cause stalk breakage. To reduce damage, delay cultivation 8-10 days after application.
SENCOR 4 + Atrazine	3 fl oz/A + 1/2 - 1-1/2 lb ai/A	Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. A non-ionic surfactant (1 qt/100 gal of spray solution) may be added to improve weed control. Atrazine is a restricted use herbicide. Follow all state and federal label recommendations and restrictions pertaining to atrazine applications.
SENCOR 4 + Banvel or Clarity	3 fl oz/A + 1/2 - 1 pt/A or 1/2 - 1 pt/A	Apply as a broadcast spray during the interval from corn emergence through the five leaf stage or when corn is 8 inches tall, whichever occurs first. For Banvel applications to corn greater than 8 inches in height, consult the Banvel label for use rates and restrictions. If growing conditions are dry and plants are stressed, addition of a non-ionic surfactant (1 qt/100 gal of spray solution) may improve weed control. For corn grown on coarse textured soils, apply Banvel or Clarity at 0.5 pt/A, regardless of application method. Application may cause injury to nearby sensitive crops or plants. Application may result in temporary leaning of corn plants. Delay cultivation until plants return to normal growth patterns to avoid stalk breakage.
SENCOR 4 + Basagran	3 fl oz/A + 1 pt/A	Apply as a broadcast spray after corn emergence but before corn exceeds 30 inches in height and the crop canopy closes the row. Adjuvants such as UAN (0.5 - 1 gal/A), ammonium sulfate (17 lbs/100 gal of spray solution), or non-ionic surfactant (1 qt/100 gal of spray solution) may improve weed control.
SENCOR 4 + Buctril or Buctril Gel	2.4 - 3 fl oz/A + 1 pt/A or 1/2 pt/A	Apply as a broadcast spray when corn is in the fourth true leaf stage or later but before the crop canopy closes the row. <b>DO NOT USE ADJUVANTS.</b> Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. To reduce potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.
SENCOR 4 + Laddok	3 fl oz/A + 2 - 2-1/2 pt/A	Apply as a broadcast spray after corn emergence until the corn is 12 inches tall. Adjuvants such as UAN (0.5 - 1 gal/A) may improve weed control. Laddok contains atrazine, and is a restricted use product. Follow all state and federal label recommendations and restrictions pertaining to atrazine.
SENCOR 4 + Marksman	3 fl oz/A + 1-1/2 - 2 pt/A	Apply as a broadcast spray during the interval from corn emergence through the five-leaf stage or when corn is 8 inches tall, whichever occurs first. <b>DO NOT USE ADJUVANTS.</b> Application may cause injury to nearby sensitive crops or plants. Application may result in temporary leaning of corn plants. Delay cultivation until plants return to normal growth patterns to avoid stalk breakage. Marksman contains atrazine, and is a restricted use product. Follow all state and federal label recommendations and restrictions pertaining to atrazine.
SENCOR 4 + Pursuit	3 fl oz/A + 2-4 oz/A	Use only on designated IMI-Corn hybrids (hybrids which are resistant/tolerant to Pursuit). Apply the 4.0 ounce rate of Pursuit if grasses are present or broadleaf weeds are near the maximum heights shown. Apply in combination with a non-ionic surfactant (1 qt/100 gal of spray solution) and UAN (1-2 qt/A).

\* Consult the appropriate tank mix partner's label for additional recommendations or restrictions. The most restrictive labeling applies to tank mixer with SENCOR 4.

<sup>1</sup> Application rate is based on, but not restricted to, 4 pounds active ingredient per gallon of 2,4 D.

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SENCOR 4 POST DIRECTED RECOMMENDATIONS		
PRODUCT	RATE	DIRECTIONS AND REMARKS <sup>1</sup>
SENCOR 4 + 2,4-D Amine or 2,4-D LVE	3 - 4.5 fl oz/A + 3/4 - 1-1/2 pt/A <sup>1</sup> or 1/2 - 3/4 pt/A <sup>1</sup>	For corn greater than 8-inches tall, apply as a directed spray with drop nozzles before tassel emergence. Apply only to varieties known to be tolerant to 2,4-D. <b>DO NOT USE ADJUVANTS.</b> 2,4-D may cause injury to nearby sensitive crops. 2,4-D applications may result in brittle corn stalks, and winds or cultivation may cause stalk breakage. To reduce damage, delay cultivation 8-10 days after application.
SENCOR 4 + Banvel	3 - 4.5 fl oz/A + 1/2 pt/A	For corn 8-36 inches tall, apply as a directed spray with drop nozzles. Application may be made up to 15 days prior to corn tasseling. If growing conditions are dry and plants are stressed, addition of a non-ionic surfactant (1 qt/100 gal of spray solution) may improve weed control. For corn grown on coarse textured soils, apply Banvel at 0.5 pt/acre, regardless of application method. Application may cause injury to nearby sensitive crops or plants. Application may result in temporary leaning of corn plants. Delay cultivation until plants return to normal growth patterns to avoid stalk breakage.
SENCOR 4 + Buctril or Buctril Gel	3 - 4.5 fl oz/A + 1 - 1-1/2 pt/A or 1/2 - 3/4 pt/A	Apply as a directed spray with drop nozzles before tassel emergence. <b>DO NOT USE ADJUVANTS.</b> Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. To reduce potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.
<sup>1</sup> Consult the appropriate tank mix partner's label for additional recommendations or restrictions. The most restrictive labeling applies to tank mixes with SENCOR 4.		
<sup>1</sup> Application rate is based on, but not restricted to, 4 pounds active ingredient per gallon of 2,4-D.		

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SENCOR 4 Flowable Herbicide

**WEEDS CONTROLLED**

These tank mixtures with SENCOR 4 will control the following annual weeds up to the maximum weed heights listed:

Common Weed Name	SENCOR 4 +							
	Atrazine	Banvel/ Clarity	Basagran	Buctril	2,4-D	Markman	Pursuit	Laddok
	Maximum Weed Height in Inches*							
Amaranth, Palmer	4 <sup>a</sup>	4	2 <sup>a</sup>	4 <sup>a</sup>	4	4	8 <sup>b</sup>	6
Buckwheat, wild	3	3	3	3	2	3	2	3
Buffalobur	4	4		4		4	1	
Burcucumber		4		4	2	4		
Carpetweed	2	2	2	2	2	2		2
Cocklebur, common	8	8	8	8	8	8	8 <sup>b</sup>	8
Eclipta	3	3	3	3	3	3		3
Henbit	3	3	2	2	2	4	3	3
Horseweed/marestail	3	4	1	1	3	6		2
Jimsonweed	5	5	6	5	5	5	5	6
Knotweed	6	6	6	4	2	6	4	6
Kochia	2 <sup>a</sup>	2	1 <sup>a</sup>	2 <sup>a</sup>	2 <sup>a</sup>	2	2	2 <sup>a</sup>
Ladysthu.	6	6	6	6	4	6	4	6
Lambsquarters, common	6 <sup>a</sup>	6	1	6	6	6	4	5
Lettuce, prickly	4	4		3	4	5		3
Mallow, Venice	2	2	2	2	2	2	2	4
Morningglory, entireleaf	3	3	1	3	3	3	2	2
Morningglory, ivyleaf	3	3	1	3	3	3	2	2
Morningglory, pitted	3	3	1	3	3	3	2	2
Morningglory, tall	3	3	1	3	3	3	2	2
Mustard, tansy	4	4	4	4	4	4	4	4
Mustard, wild	4	4	4	4	4	4	4	4
Nightshade, black	6	6		6	1	6	3	1
Nightshade, eastern black	6	6		6	1	6	3	1
Pigweed, redroot	6 <sup>a</sup>	6	2 <sup>a</sup>	6 <sup>a</sup>	6	6	8 <sup>b</sup>	6 <sup>a</sup>
Pigweed, smooth	6 <sup>a</sup>	6	2 <sup>a</sup>	6 <sup>a</sup>	6	6	8 <sup>b</sup>	6 <sup>a</sup>
Poorjoe	3	3	3	3	3	3	3	3
Purslane, common	1	3				4	1	
Pusley, Florida	3	3	3	3	3	3		3
Ragweed, common	5	5	3	5	5	6	3	4
Ragweed, giant	4	5	2	4	3	6	4	4
Sicklepod	3	3	3	3	3	3	3	3
Sida, prickly	1	1	3	1	1	2	1	2
Smartweed, Pennsylvania	6	6	6	6	4	6	4	6
Sunflower, common	6	6	6	6	6	6	5	6
Thistle, Russian	1	3		3	1	3	1	1
Velvetleaf	6 <sup>a</sup>	6	6	6	4	6	5	6
Waterhemp, tall	5 <sup>a</sup>	5	2 <sup>a</sup>	5 <sup>a</sup>	5	5	4 <sup>b</sup>	2 <sup>a</sup>

\* When weeds are approaching the maximum height listed or found in high densities, use the higher rate of SENCOR 4 and the selected tank mix partners.

<sup>a</sup> These treatments will not control triazine resistant biotypes.

<sup>b</sup> These treatments will not control ALS resistant biotypes.

**PERENNIAL WEED SUPPRESSION**

The following SENCOR 4 tank mixtures will provide top growth burndown and in season suppression of the following perennial weeds; however, regrowth may occur. For the best performance on these weeds, use the maximum rates of SENCOR 4, Banvel, Buctril, Clarity, Marksman, 2,4-D LVE or Pursuit recommended for these tank mixtures.

Common Weed Name	SENCOR 4 +				
	Banvel/Clarity	Buctril	2,4-D LVE	Marksman	Pursuit
Bindweed, field	X		X	X	
Dandelion, common	X		X	X	
Dock, curly	X		X	X	
Smartweed, swamp	X		X	X	
Thistle, Canada	X	X	X	X	X