



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

JAN 25 1994

Richard P. Honeycutt  
MILES INC.  
AGRICULTURE DIVISION  
8400 Hawthorn Rd - Box 4913  
Kansas City, MO 64120

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/25/93 in Response to PR Notice 93-7  
EPA Reg. No. 3125-314  
SENCOR 4 FLOWABLE HERBICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

8 of 71

Page 2

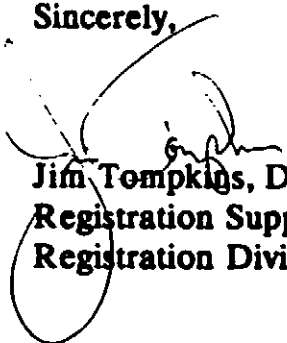
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

# SENCOR 4 Flowable Herbicide

314-7950.YLD

U.S. LABEL

Base Pre-Reg. (7950)

3 9 71

REASON TO ISSUE: Labeling revisions required by the Worker Protection Standard (WPS), EPA PR Notice 93-7.

Date of Draft: 08/05/93(H)

## SENCOR<sup>®</sup> 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%

Contains 4 lb of 4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one per gallon.

EPA Reg. No. 3125-314

EPA Est. 3125-MO-1

NET CONTENTS: \_\_\_ GALLONS

STOP - READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN

### CAUTION

(See page four for additional precautions and statements of practical treatment)

### AVISO

~~PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.~~

~~(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)~~



ACCEPTED  
with COMMENTS  
in EPA Letter Dated

JAN 25 1994

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

3125-314

TABLE OF CONTENTS

PRECAUTIONARY STATEMENTS AND STATEMENTS OF PRACTICAL TREATMENT ..... 4

PERSONAL PROTECTIVE EQUIPMENT..... 4

ENVIRONMENTAL HAZARDS ..... 4

DIRECTIONS FOR USE AND CONDITIONS OF SALE ..... 5

AGRICULTURAL USE REQUIREMENTS..... 5

GENERAL INFORMATION ..... 6

    MIXING ..... 6

    CHEMIGATION ..... 6

    Application with Herbicide Spray Equipment ..... 7

    Application of SENCOR in Fluid Fertilizers ..... 8

    Commercial Impregnation and Application of SENCOR on Dry Bulk Fertilizer..... 8

    SOYBEANS ..... 9

        Weeds Controlled by SENCOR + SENCOR Tank-Mix Combinations..... 10

        SENCOR (Alone)-Preemergence ..... 16

        Uses of SENCOR Herbicide in Combination with Other Herbicides..... 17

        Sequential Application of Scepter Following SENCOR ..... 17

        SENCOR on Coarse (Light) Soils ..... 38

    (OVERLAY APPLICATIONS)

        SENCOR and Treflan-Overlay ..... 21

        SENCOR and Sonalan - Overlay ..... 20

        SENCOR and Dual-Overlay ..... 22

        SENCOR and Prowl-Overlay ..... 23

    (PPI TANK MIXES)

        Split-Shot Application of SENCOR with Dual, Lasso, Prowl, Treflan or Sonalan ..... 17

        Extended Split-Shot Application of SENCOR with Dual or Lasso ..... 19

        SENCOR plus Treflan-Tank Mix ..... 21

        SENCOR plus Sonalan - Tank Mix ..... 20

        SENCOR plus Dual-Tank Mix ..... 22

        SENCOR plus Prowl-Tank Mix ..... 23

        SENCOR plus Lasso-Tank Mix ..... 25

        SENCOR plus Cannon-Tank Mix ..... 27

        SENCOR plus Command-Tank Mix ..... 28

        SENCOR plus Commence-Tank Mix (Early Application) ..... 29

        SENCOR plus Commence-Tank Mix ..... 29

        SENCOR plus Freedom-Tank Mix ..... 31

        SENCOR plus Canopy and a Grass Herbicide-Tank Mix ..... 32

        SENCOR plus Command and a Grass Herbicide-Tank Mix ..... 33

        SENCOR plus Scepter and a Grass Herbicide-Tank Mix ..... 34

        SENCOR plus Pursuit and a Grass Herbicide-Tank Mix ..... 35

        SENCOR plus Pursuit Plus-Tank Mix ..... 35

    (PREEMERGENCE TANK MIXES)

        SENCOR plus Dual-Tank Mix ..... 22

        SENCOR plus Prowl-Tank Mix ..... 23

        SENCOR plus Lasso-Tank Mix ..... 25

        SENCOR plus Pursuit Plus-Tank Mix ..... 35

        SENCOR plus Surflan-Tank Mix ..... 36

        SENCOR plus Amiben-Tank Mix ..... 37

        SENCOR plus linuron plus Dual or Lasso-Tank Mix ..... 38

    Soybeans (Minimum Till or No-Till)

        SENCOR plus Gramoxone-Tank Mix ..... 40

        SENCOR plus Lasso and Gramoxone-Tank Mix ..... 40

        SENCOR plus Surflan and Gramoxone-Tank Mix ..... 40

        SENCOR plus 2,4-D Low Volatile Ester-Tank Mix ..... 41

        Soybeans (Postemergence Directed Sprays)..... 42

**GENERAL INFORMATION (Continued)**

|   |    |
|---|----|
| <b>POTATOES</b> .....   | 43 |
| SENCOR-Preemergence .....   | 44 |
| SENCOR-Postemergence .....  | 44 |
| Sprinkler Irrigation Application .....  | 46 |
| SENCOR plus Dual-Tank Mix .....   | 46 |
| SENCOR plus Prowl-Tank Mix .....  | 46 |
| <br><b>ALFALFA and SAINFOIN</b> .....   | 47 |
| Alfalfa and Sainfoin (all areas except California) .....  | 47 |
| Alfalfa and Sainfoin (California only) .....  | 48 |
| Alfalfa - Tank mix with Gramoxone (Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming and certain California counties) ..... | 50 |
| Alfalfa - Post Dormant Application .....  | 51 |
| <br><b>ASPARAGUS</b> .....  | 51 |
| <br><b>CARROTS</b> .....  | 52 |
| <br><b>FIELD CORN</b> (Iowa, Kansas, Missouri, Nebraska and South Dakota only) .....  | 53 |
| <br><b>GARBANZO BEANS (Chickpeas)</b> - (Idaho, Oregon and Washington only) .....   | 54 |
| <br><b>LENTILS AND DRY FIELD PEAS</b>   |    |
| (Idaho, Montana, Oregon and Washington) .....   | 55 |
| (North Dakota only) .....   | 56 |
| <br><b>SUGARCANE</b>  |    |
| (Hawaii only) .....   | 57 |
| (Louisiana and Texas only) .....  | 58 |
| (Florida only) .....  | 59 |
| <br><b>TOMATOES</b> .....   | 60 |
| <br><b>CEREALS</b>  |    |
| Spring and Winter Barley/Winter Wheat.....  | 62 |
| Idaho, Montana, Nevada, Oregon, Utah, and Washington.....   | 63 |
| Dryland (Non-irrigated) Winter Wheat  |    |
| Kansas, Oklahoma, and Texas .....   | 64 |
| Arkansas, Georgia, Kentucky, Louisiana, Mississippi Tennessee, and Missouri "Bootheel" .....  | 65 |
| <br><b>WHEAT/FALLOW/WHEAT ROTATION</b>  |    |
| (Idaho, Oregon, Utah and Washington only) .....   | 67 |
| Barley and Wheat/Fallow/Barley and Wheat Rotation   |    |
| (Colorado, Kansas, Montana, Nebraska and Wyoming only) .....  | 68 |
| <br><b>CROP ROTATION RECOMMENDATIONS</b> .....  | 69 |
| <br><b>STORAGE AND DISPOSAL</b> .....   | 69 |

# CAUTION

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be harmful if swallowed or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. ~~Wash thoroughly with soap and warm water after handling. Wash contaminated clothing with soap and hot water before reuse.~~

~~Keep out of reach of children. Do not use in areas where children or livestock are present. Do not use in areas where people or animals are present. Do not use in areas where people or animals are present.~~

~~Do not use in areas where children or livestock are present. Do not use in areas where people or animals are present. Do not use in areas where people or animals are present. Do not use in areas where people or animals are present.~~

~~Use Safety Recommendations:  
Use should~~

~~Wear hands before eating, drinking, chewing gum, using tobacco or using the toilet.~~

Do not contaminate feed or food. Keep out of reach of children.

Obtain prompt medical aid if poisoning should occur.

To Physician: Treat the patient symptomatically.

Symptoms of Poisoning: The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

## STATEMENTS OF PRACTICAL TREATMENT

If in eyes, immediately flush eyes with plenty of water for at least 15 minutes. For further treatment get medical attention.

If swallowed, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose.

If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately.

If on skin, wash thoroughly with soap and warm water.

## ENVIRONMENTAL HAZARDS

Do not use on other crops grown for food or forage. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

Do not allow sprays to drift on to adjacent desirable plants.

Observe all cautions and limitations on labeling of all products used in mixtures.

**GROUND WATER ADVISORY.** Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate ground water which may be used as drinking water. Metribuzin has been found in ground water as a result of agricultural use. Users are advised not to apply metribuzin where the water table (ground water) is close to the surface, and where the soils are very permeable, i.e., well drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

**BEST AVAILABLE COPY**

## RE-ENTRY STATEMENTS

~~Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.~~

~~Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings should include these statements found under the label heading "Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given,~~

~~warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: CAUTION, area treated with SENCOR 4 flowable herbicide on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes. If swallowed, vomiting should be induced. (See Precautionary Statements on label).~~

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using SENCOR 4 flowable herbicide.

**CONDITIONS OF SALE:** THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

**Exception:** If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

**BEST AVAILABLE COPY**

# GENERAL INFORMATION

## MIXING

When using SENCOR 4, make sure the sprayer is completely clean, free of rust or corrosion which occurs from Winter storage. Examine strainers and screens to be sure the sprayer is clean from previously used pesticides.

Any tank mix containing SENCOR 4 should be kept agitated and sprayed out immediately. Do not allow tank mixes to stand for prolonged periods of time.

The proper mixing procedure for SENCOR 4 alone or in tank mix combinations with other herbicides is:

1. Fill the spray tank 1/4 to 1/3 full with clean water.
2. Add recommended rate of SENCOR 4 while recirculating and with agitator running.
3. Follow the triple rinse procedure described under "STORAGE AND DISPOSAL" to insure that all product is removed from the container.
4. Mix thoroughly and add clean water to fill spray tank to desired level.
5. Add the other herbicide to tank last and agitate thoroughly.
6. Continue agitation during application and until sprayer tank is empty.

**SOIL TEXTURE:** As used on this label, "Coarse soils" are loamy sand or sandy loam soils. "Medium soils" are loam, silt loam, silt, sandy clay, or sandy clay loam. "Fine soils" are silty clay, silty clay loam, clay, or clay loam. Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

## CHEMIGATION

SENCOR 4 is recommended for application through sprinkler irrigation equipment to potatoes, soybeans, tomatoes, and asparagus as directed on this label. Refer to the crop sections of this label for recommended rates, weeds controlled or suppressed, restrictions, and special precautions.

Apply this product only through sprinkler (including center pivot, lateral move, or solid set) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

**Calibration: (Center Pivot and Self-Propelled Lateral Move Systems):** Sprinkler irrigation systems must be accurately calibrated for application of SENCOR 4. Greater accuracy in calibration (and distribution) will be achieved by injecting a larger volume of a more dilute mixture of product and water per hour. Follow the steps below to

calibrate center pivot and lateral move systems:

1. Determine number of minutes required to make one complete revolution while applying 1/4 to 3/4 inch of water per acre.
2. With the system at operating pressure determine the exact number of minutes required to inject one gallon of water.
3. Divide the time required for one revolution (step 1) by the time required to inject one gallon (step 2). This gives total gallons of product-water mixture to be added to nurse tank.
4. Add required amount of water to nurse tank and start the agitation system. Then add sufficient SENCOR 4 at the recommended rate (See RECOMMENDED BROADCAST APPLICATIONS) to the nurse tank.



**EXAMPLE:** If 20 hours (1200 minutes) were required for one revolution and if 2 minutes were required to inject one gallon, then a total of 600 gallons of product-water mixture are required ( $1200 \div 2 = 600$ ); to treat 135 acres at 1 pint/acre, 135 pints (16 gallons and 7 pints) of SENCOR 4 are required.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Maintain continuous agitation in the injection nurse tanks during the herbicide application, sufficient to keep herbicide in suspension.

Apply specified dosage in 1/4 to 3/4 inch of water (1/4 to 1/2 inch of water on sandy soils) per acre as a continuous injection in center pivot and lateral move systems or in the last 15 to 30 minutes of set in permanent solid set

sprinkler systems. Application of more than the quantity of irrigation water recommended on this label may result in decreased product performance by removing the chemical from the zone of effectiveness. Where sprinkler distribution patterns do not overlap sufficiently unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively crop injury may result. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. To insure that lines are flushed and free of remaining pesticide, an indicator dye may be injected into the lines to mark the end of the application period.

Use a minimum of 1 part water to 1 part herbicide for injection. The use of a larger volume of water will insure greater accuracy and more uniform distribution.

**APPLICATION OF SENCOR 4 WITH HERBICIDE SPRAY EQUIPMENT**

Use a standard low pressure (20 to 40 psi.) herbicide boom sprayer equipped with suitable nozzles and screens no finer than 50-mesh in nozzle and in-line strainers. Agitate thoroughly before and during application with bypass agitation.

**GROUND APPLICATION:** Apply the proper rate of SENCOR 4 in a minimum of 10 to 40 gallons of spray mixture per acre broadcast.

**Banded Application:** Use proportionally less SENCOR 4 per acre in a band versus a broadcast application. For band application use 1/4 to 1 gallon of spray mix per inch of band width regardless of row spacing.

**EXAMPLES:** (1) To treat a 15-inch band on rows 30 inches apart, use one-half of the broadcast rate of SENCOR. (2) To treat a 14-inch band on rows 42 inches apart, use one-third of the broadcast rate of SENCOR.

**AERIAL APPLICATION:** Where permitted, apply specified rate in a minimum of 2 to 10 gallons of spray mixture per acre. Do not apply aerially when wind speed is greater than 10 mph.

**NOTE:** Do not apply aerially when SENCOR is tank mixed with Lasso.

**For All Applications of SENCOR 4:** Sprayer must be accurately calibrated before applying SENCOR 4. Check sprayer during application to be sure it is working properly and delivering a uniform spray pattern. As the volume of spray mixture decreases per acre, the importance of accurate calibration and uniform application increases. Avoid over application, misapplication, and boom and spray swath overlapping that will increase spray dosage. (Crop injury may occur as a result). Avoid spray skips and gaps which allow weeds to grow in untreated soil. Do not apply when weather conditions favor spray drift and/or when sensitive or cool season crops, such as cole crops, onions, peas, or strawberries are present in adjacent fields or in areas where wheat is growing in coarse textured soils.

**SPRAYER CLEANUP:** Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops to be sprayed. Drain any remaining spray solution of SENCOR from the spray tank and dispose of according to label disposal instructions. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of one cup per 20 gallons of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of spray tank, nozzles or spray rig. All rinse water must be disposed of in compliance with local, state, and Federal guidelines.

**APPLICATION OF SENCOR 4 IN FLUID FERTILIZERS**

SENCOR 4 may be applied in fluid fertilizer solutions to alfalfa and soybeans by following the appropriate mixing procedures and compatibility check. When using tank mix combinations, be sure all components are compatible.

Compatibility checks of SENCOR and tank mix combinations which include SENCOR should be made for each batch of fluid fertilizer because of the variability of these fertilizers.

**Compatibility Check:**

1. Pre-mix 2 teaspoonsful of SENCOR 4 with 9 teaspoonsful of water (1:4 ratio) in a quart jar by adding the water first and followed with SENCOR. Mix thoroughly. If a second herbicide is to be used, double the amount of water (1:8 ratio) and add the second herbicide after mixing SENCOR first.
2. Then pour 1 pint of fluid fertilizer into the quart jar and shake well.
3. Allow to stand for 5 minutes.

**THIS COMPATIBILITY CHECK SHOULD ONLY BE USED WHEN MIXING WITH FLUID FERTILIZERS.**

**Interpretation of Results:** If the solution in the jar appears to be uniform, without signs of agglomeration, or without a separation of an oily film on top of the fertilizer, the mixture may be used. If not, repeat the compatibility check using twice the amount of water or add a compatibility agent to the water. If separation occurs, but the mixture can be resuspended by shaking, then application is possible with good agitation in the spray tank.

**Tank Mixing Guidelines:**

1. Add the required amount of water and compatibility agent (if required) to the tank. Start agitation system while adding SENCOR 4 and follow by adding the fluid fertilizer and agitate.
2. If a second herbicide is to be used, follow as above in 1, but use twice the amount of water. Start agitation and add SENCOR and follow by adding the second herbicide, and then continue filling the tank with fluid fertilizer.
3. Maintain continuous agitation to assure uniform spray mixture until the tank is emptied.

**COMMERCIAL IMPREGNATION AND APPLICATION OF SENCOR 4 ON DRY BULK FERTILIZER**

Dry bulk fertilizer may be impregnated or coated with SENCOR 4 for application to established alfalfa and to soybeans. All recommendations, cautions, and special precautions on this label must be followed along with state regulations relating to dry bulk fertilizer blending, impregnating and labeling.

**Impregnation:** To impregnate, use a system consisting of a belt, conveyor, or closed drum which is used for dry bulk fertilizer blending. Any commonly used fertilizer can be impregnated with SENCOR except ammonium nitrate, or fertilizers containing ammonium nitrate, potassium nitrate, or sodium nitrate. Do not use on powder limestone.

Apply using a minimum of 200 lbs dry bulk fertilizer per acre and up to a maximum of 450 lbs per acre. To impregnate or coat dry bulk fertilizer, mix SENCOR 4 with sufficient water to form a sprayable slurry. The delivery nozzles must be directed to deliver a fine spray toward the fertilizer for thorough coverage while avoiding spray contact with mixing equipment. Uniform impregnation of SENCOR to dry bulk fertilizer will vary and if the absorptivity is not adequate, an adsorptive powder may be added to produce a dry, free-flowing mixture. Micro-Cel E (Johns-Manville Product Corporation) is the recommended absorbent powder. When another herbicide is used with SENCOR, mix and impregnate immediately.

Apply immediately after impregnation unless experience has shown that impregnated fertilizer can be stored without becoming lumpy and difficult to spread.

**Rates:** Select the recommended rate of SENCOR 4 per acre from the appropriate section of this label and refer to the formula below to determine the amount of SENCOR which is to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer which will be distributed on one acre.

$$\begin{array}{rcccl} \text{Pt SENCOR 4} & & 2000 & & \text{Pt SENCOR 4 Per} \\ \text{Per Acre} & \times & \frac{\text{Lb Fertilizer}}{\text{Per Acre}} & = & \text{Ton of Fertilizer} \end{array}$$

**APPLICATION:** Uniform application is essential for satisfactory weed control. Accurate calibration of fertilizer application equipment is essential for uniform distribution to the soil surface. The recommended method

of application is to apply 1/2 the recommended rate and overlap 50 percent or to double apply by splitting the middles to obtain the best distribution pattern.

If fertilizer materials are excessively dusty, use diesel oil or other suitable additive to reduce dust prior to impregnation as dusty fertilizer will result in poor distribution during application. Crop injury and/or poor weed control may occur where the impregnated fertilizer is not uniformly applied.

**INCORPORATION AND COMBINATION USES:** When SENCOR 4 is to be used in combination with another herbicide, follow directions on this label for combinations, rates, crops, incorporation, and special precautions.

**SOYBEANS (EXCEPT CALIFORNIA)**

SENCOR herbicide tank mix combinations are recommended for preplant incorporated applications, preemergence surface applications, Split-Shot application and Extended Split-Shot application. SENCOR 4 is also recommended as an overlay application following a preplant incorporated application of a recommended grass herbicide and alone as a preemergence surface application. All these applications can be applied with ground equipment, and some can be applied with aerial spray equipment. In addition, SENCOR 4 can be applied as a post emergence directed spray to soybeans in certain states.

**SPECIAL PRECAUTIONS (Soybeans):** Injury to soybeans may occur when SENCOR 4 is used under the following conditions:

1. When soils have a calcareous surface area or a pH of 7.5 or higher.
2. Due to the sensitivity of certain soybean varieties, SENCOR is not recommended for use on Altona, AP 55, AP 71, Asgrow 6520, Burlison, Coker 102, Coker 156, Dassel, GL 3202, Govan, Maple Amber, NB 3665, NKS 1884, Paloma 350, Portage, Regal, Semmes, Terra-Vig 505, Terra-Vig 606, Tracy, Vansoy, and Vinton 81. Consult your Miles Representative or your seed supplier for information on the tolerance of newly released soybean varieties, prior to use of SENCOR.
3. When applied in conjunction with soil-applied organic phosphate pesticides.
4. Over application or boom overlapping may result in stand loss and soil residues.

5. Uneven application or improper incorporation can decrease the level of weed control and/or increase the level of injury.
6. When applied to any soil with less than 1/2% organic matter.
7. Soil incorporation deeper than recommended.
8. When sprayers are not calibrated accurately.
9. When heavy rains occur soon after application, especially in poorly drained areas where water may stand for several days.
10. When soybeans are planted less than 1 1/2 inches deep, particularly in preemergence application.

**Activation:** A minimum amount of soil moisture is required to activate SENCOR. In areas of low rainfall, preemergence applications to dry soil should be followed with light irrigation of 1/4 acre inch of water. Do not apply heavy irrigation immediately after application. As with many surface-applied herbicides, weed control and crop tolerance may vary with rainfall and/or soil texture.

**Grazing and Feeding Treated Vines:** Treated vines may be grazed or fed to livestock 40 days after application when SENCOR is applied alone or with Treflan®, Dual®, Prowl®, Lasso®, Amiben®, Gramoxone, Lasso plus Gramoxone.

Do not use treated vines for feed or forage when SENCOR is applied with Surflan®, Surflan plus Gramoxone, Sonalan®, linuron plus Lasso, linuron plus Dual.

**Rate Ranges:** Where a rate range is shown, use a lower rate on soils that are coarse-textured or low in organic matter. Use a higher rate on soils that are relatively fine-textured or high in organic matter.

**Replanting:** If replanting is necessary in fields treated with SENCOR 4 as directed on this label, the field may be replanted to soybeans. When replanting a minimum of tillage is recommended. Do not apply a second treatment as injury to soybeans may occur.

### WEEDS CONTROLLED BY SENCOR AND SENCOR HERBICIDE TANK-MIX COMBINATIONS

C = Control                      S = Suppression or Erratic Control                      P = Poor or No Control  
 0 = No Information (Control may range from poor to excellent)

- |                         |                                    |   |
|-------------------------|------------------------------------|---|
| 1 = SENCOR Alone        | 6 = SENCOR plus Lasso              | 11 = SENCOR + Surflan & Gramoxone             |
| 2 = SENCOR Split-Shot   | 7 = SENCOR plus Surflan            | 12 = Extended Split-Shot                      |
| 3 = SENCOR plus Treflan | 8 = SENCOR plus Amiben             | 13 = SENCOR plus Sonalan                      |
| 4 = SENCOR plus Dual    | 9 = SENCOR plus Gramoxone          | 14 = SENCOR plus linuron plus (Lasso or Dual) |
| 5 = SENCOR plus Prowl   | 10 = SENCOR plus Lasso & Gramoxone |   |

**ANNUAL BROADLEAF WEEDS**

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| Black Nightshade<br>( <i>Solanum nigrum</i> )                  | P | P | P | C | P | C | S | S | P | C  | P  | C  | P  | S  |
| Bristly Starbur<br>( <i>Acanthospermum hispidum</i> )          | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Buffalobur<br>( <i>Solanum rostratum</i> )                     | C | C | P | P | P | P | P | P | P | P  | P  | C  | P  | 0  |
| Carpetweed<br>( <i>Mollugo verticillata</i> )                  | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Cocklebur<br>( <i>Xanthium pennsylvanicum</i> )                | S | C | S | S | S | S | S | S | C | C  | C  | C  | S  | S  |
| Copperleaf,<br>Hophornbeam<br>( <i>Acalypha ostryaefolia</i> ) | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Florida Beggarweed<br>( <i>Desmodium tortuosum</i> )           | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Florida Pusley<br>( <i>Richardia scabra</i> )                  | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Galinsoga<br>( <i>Galinsoga</i> spp.)                          | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Horseweed<br>Marestail<br>( <i>Conyza canadensis</i> )         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C | C  | C  | C  | 0  | C  |

**WEEDS CONTROLLED BY SENCOR AND SENCOR HERBICIDE TANK-MIX COMBINATIONS  
(Continued)**

C = Control                      S = Suppression or Erratic Control                      P = Poor or No Control  
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 3 = SENCOR plus Trellan                      8 = SENCOR plus Amiben                      13 = SENCOR plus Sonalan  
 4 = SENCOR plus Dual                      9 = SENCOR plus Gramoxone                      14 = SENCOR plus linuron  
 5 = SENCOR plus Prowl                      10 = SENCOR plus Lasso & Gramoxone plus (Lasso or Dual)

**ANNUAL BROADLEAF WEEDS**

| WEEDS  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| Jimsonweed<br>( <i>Datura stramonium</i> )                         | C | C | C | C | C | C | C | S | C | C  | C  | C  | C  | S  |
| Knotweed<br>( <i>Polygonum</i> spp.)                               | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Kochia<br>( <i>Kochia scoparia</i> )                               | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Lambsquarters<br>( <i>Chenopodium</i> spp.)                        | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Morningglory,<br>Ivyleaf<br>( <i>Ipomoea hederacea</i> )           | P | P | S | P | P | P | P | P | P | P  | P  | P  | P  | P  |
| Morningglory,<br>Pitted<br>( <i>Ipomoea lacunosa</i> )             | P | P | S | P | P | P | P | P | P | P  | P  | P  | P  | P  |
| Morningglory,<br>Smallflower<br>( <i>Jacquemontia tamnifolia</i> ) | P | P | C | P | P | P | P | P | P | P  | P  | P  | P  | P  |
| Morningglory,<br>Tall<br>( <i>Ipomoea purpurea</i> )               | P | P | S | P | P | P | S | P | P | P  | P  | P  | P  | P  |

**WEEDS CONTROLLED BY SENCOR AND SENCOR HERBICIDE TANK-MIX COMBINATIONS  
(Continued)**

C = Control                      S = Suppression or Erratic Control                      P = Poor or No Control  
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| 3 = SENCOR plus Treflan | 8 = SENCOR plus Amiben             | 13 = SENCOR plus Sonalan                         |
| 4 = SENCOR plus Dual    | 9 = SENCOR plus Gramoxone          | 14 = SENCOR plus linuron<br>plus (Lasso or Dual) |
| 5 = SENCOR plus Prowl   | 10 = SENCOR plus Lasso & Gramoxone |  |

| ANNUAL BROADLEAF WEEDS                                       | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| <b>Pigweeds</b><br>( <i>Amaranthus</i> spp.)                 | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| <b>Prickly Sida/<br/>Teaweed</b><br>( <i>Sida spinosa</i> )  | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| <b>Purslane</b><br>( <i>Portulaca oleracea</i> )             | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| <b>Ragweed, Common</b><br>( <i>Ambrosia artemisiifolia</i> ) | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| <b>Redweed</b><br>( <i>Melochia corchorifolia</i> )          | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| <b>Russian Thistle</b><br>( <i>Salsola kali</i> )            | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| <b>Sesbania</b><br>( <i>Sesbania</i> spp.)                   | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| <b>Shepherdspurse</b><br>( <i>Capsella bursa-pastoris</i> )  | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| <b>Sicklepod</b><br>( <i>Cassia obtusifolia</i> )            | C | C | S | C | S | C | S | C | C | C  | S  | C  | S  | S  |
| <b>Smartweeds</b><br>( <i>Polygonum</i> spp.)                | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | S  |

**WEEDS CONTROLLED BY SENCOR AND SENCOR HERBICIDE TANK-MIX COMBINATIONS  
(Continued)**

C = Control                      S = Suppression or Erratic Control                      P = Poor or No Control  
 0 = No Information                      (Control may range from poor to excellent)

- |                         |                                    |  |
|-------------------------|------------------------------------|--|
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| 3 = SENCOR plus Treflan | 8 = SENCOR plus Amiben             | 13 = SENCOR plus Sonalan                         |
| 4 = SENCOR plus Dual    | 9 = SENCOR plus Gramoxone          | 14 = SENCOR plus linuron<br>plus (Lasso or Dual) |
| 5 = SENCOR plus Prowl   | 10 = SENCOR plus Lasso & Gramoxone |  |

| ANNUAL BROADLEAF WEEDS                          | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| Spotted Spurge<br>( <i>Euphorbia maculata</i> ) | C | C | P | C | P | C | S | P | C | C  | C  | C  | P  | 0  |
| Spurred Anoda<br>( <i>Anoda cristata</i> )      | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | 0  |
| Sunflower<br>( <i>Helianthus spp.</i> )         | C | C | S | S | S | S | S | S | S | S  | S  | C  | S  | P  |
| Velvetleaf<br>( <i>Abutilon theophrasti</i> )   | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Venice Mallow<br>( <i>Hibiscus trionum</i> )    | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Wild Mustards<br>( <i>Brassica spp.</i> )       | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |

**WEEDS CONTROLLED BY SENCOR AND SENCOR HERBICIDE TANK-MIX COMBINATIONS  
(Continued)**

C = Control                      S = Suppression or Erratic Control                      P = Poor or No Control  
 O = No Information            (Control may range from poor to excellent)

- |                          |                                    |  |
|--------------------------|------------------------------------|--|
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| 3 = SENCOR plus Trefflan | 8 = SENCOR plus Amiben             | 13 = SENCOR plus Sonalan                         |
| 4 = SENCOR plus Dual     | 9 = SENCOR plus Gramoxone          | 14 = SENCOR plus linuron<br>plus (Lasso or Dual) |
| 5 = SENCOR plus Prowl    | 10 = SENCOR plus Lasso & Gramoxone |  |

| ANNUAL GRASSES  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| Barnyardgrass<br>( <i>Echinochloa crus-galli</i> )            | S | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Bluegrass<br>( <i>Poa annua</i> )                             | C | C | C | C | C | C | O | C | C | C  | C  | C  | C  | C  |
| Broadleaf<br>Signalgrass<br>( <i>Brachiaria platyphylla</i> ) | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | O  |
| Browntop Millet<br>( <i>Panicum ramosum</i> )                 | C | C | C | P | C | S | C | P | C | P  | C  | C  | O  | O  |
| Crabgrass<br>( <i>Digitaria</i> spp.)                         | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Crowfootgrass<br>( <i>Dactyloctenium aegyptium</i> )          | C | C | C | C | C | C | C | C | C | C  | C  | C  | O  | O  |
| Cupgrass<br>( <i>Eriochloa gracilis</i> )                     | P | C | P | P | P | P | P | P | P | P  | P  | C  | O  | O  |
| Foxtails<br>( <i>Setaria</i> spp.)                            | S | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Goosegrass<br>( <i>Eleusine indica</i> )                      | C | C | C | C | C | C | C | C | C | C  | C  | C  | C  | C  |
| Johnsongrass,<br>Seedling<br>( <i>Sorghum halepense</i> )     | C | C | C | C | C | C | C | P | C | C  | C  | C  | C  | O  |



**WEEDS CONTROLLED BY SENCOR AND SENCOR HERBICIDE TANK-MIX COMBINATIONS  
 (Continued)**

C = Control                      S = Suppression or Erratic Control                      P = Poor or No Control  
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 4 = SENCOR plus Dual                      9 = SENCOR plus Gramoxone                      14 = SENCOR plus linuron  
 5 = SENCOR plus Prowl                      10 = SENCOR plus Lasso & Gramoxone                      plus (Lasso or Dual)

| ANNUAL GRASSES   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| <b>Junglerice</b><br>( <i>Echinochloa colorum</i> )        | C | C | C | C | C | C | 0 | C | C | C  | C  | C  | C  | 0  |
| <b>Nutsedge, Yellow</b><br>( <i>Cyperus esculentus</i> )   | P | P | P | C | P | C | P | P | P | C  | P  | C  | P  | 0  |
| <b>Panicum, Fall</b><br>( <i>Panicum dichotomiflorum</i> ) | P | C | C | C | C | C | C | P | P | C  | P  | C  | C  | C  |
| <b>Panicum, Texas</b><br>( <i>Panicum texanum</i> )        | P | C | C | P | C | S | C | P | P | S  | P  | S  | C  | 0  |
| <b>Red Rice</b><br>( <i>Oryza sativa</i> )                 | P | C | C | C | P | C | 0 | P | P | C  | P  | C  | 0  | 0  |
| <b>Sandbur</b><br>( <i>Cenchrus spp.</i> )                 | P | C | C | P | C | S | 0 | P | P | C  | P  | S  | 0  | 0  |
| <b>Shattercane</b><br>( <i>Sorghum bicolor</i> )           | P | C | C | P | P | P | P | P | P | P  | P  | P  | C  | 0  |
| <b>Sorghum, Volunteer</b><br>( <i>Sorghum spp</i> )        | P | C | C | P | P | P | P | P | P | P  | P  | P  | 0  | P  |
| <b>Sprangletop</b><br>( <i>Leptochloa spp.</i> )           | P | C | C | P | P | P | 0 | P | P | P  | P  | P  | 0  | P  |
| <b>Stinkgrass</b><br>( <i>Eragrostis spp.</i> )            | P | C | C | P | P | P | 0 | P | P | P  | P  | P  | 0  | P  |
| <b>Wheat, Volunteer</b><br>( <i>Triticum spp.</i> )        | P | P | P | P | P | P | S | P | P | C  | C  | P  | 0  | P  |
| <b>Witchgrass</b><br>( <i>Panicum capillare</i> )          | P | C | C | C | C | C | 0 | P | P | C  | C  | C  | C  | 0  |

**SENCOR ALONE**

**SENCOR 4 (Alone) Preemergence Application:** The following rates of SENCOR 4 may be applied preemergence to soybeans through center pivot or lateral move sprinkler irrigation systems that apply water in a uniform manner. Refer to "Chemigation" section of this label for directions.

SENCOR 4 can be applied broadcast or banded. This application may be made during planting or as a separate operation after planting but before crop emergence. See the "GENERAL INFORMATION" section in the front of this label.

Do not apply to sand soils, or to sandy loam or loamy sand soils containing less than 2% organic matter. Do not incorporate into soil or apply more than once per season.

| PINTS OF SENCOR 4 PER ACRE  |                         |                |                |
|---|-------------------------|----------------|----------------|
| SOIL TEXTURE  | ORGANIC MATTER          |                |                |
|   | Less than 2%            | 2 to 4%        | Over 4%        |
| <b>COARSE SOILS</b><br>(Sandy loam, loamy sand)   | DO NOT USE <sup>3</sup> | 3/4            | 1              |
| <b>MEDIUM SOILS<sup>1</sup></b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)       | 3/4 to 1                | 1 to 1 1/4     | 1 1/4 to 1 1/2 |
| <b>FINE SOILS<sup>1</sup></b><br>(Silty clay, silty clay loam <sup>2</sup> , clay, clay loam) | 1 to 1 1/4              | 1 1/4 to 1 1/2 | 1 1/2 to 1 3/4 |
| <b>Mississippi Delta Only</b>   | 1 1/2                   | 1 3/4          | 2              |

<sup>1</sup> For control of lambsquarters, redroot pigweed and wild mustard, and for suppression of green, yellow and giant foxtail on alkaline (calcareous) soils in Nebraska, Minnesota, South Dakota and North Dakota only, apply SENCOR 4 at rates of 1 pt/acre on medium soils and 1/2 to 3/4 pt/acre on fine soils regardless of soil organic matter percentage (use 3/4 pt only where soil pH is less than 7.5 and weed pressure is heavy). The 1/2 pt/acre rate of SENCOR 4 alone can be applied regardless of soil pH. For control of other weeds listed on this label use SENCOR 4 at full rates recommended in the table above, but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher.

<sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

<sup>3</sup> Refer to the appropriate section of this label for use of SENCOR 4 on soybeans in coarse soils with 0.5% or more organic matter in certain states.

## USES OF SENCOR HERBICIDE IN COMBINATIONS WITH OTHER HERBICIDES SEQUENTIAL APPLICATION OF SCEPTER FOLLOWING SENCOR 4

If needed, application of SENCOR alone or in a registered tank mix according to directions on this label, may be followed by an early postemergence application of Scepter herbicide (1.5 lb/gal liquid or 70 DG) for control of cocklebur. Apply 1/6 to 1/3 pint of Scepter (0.7 to 1.4 ounces of Scepter 70 DG) in a minimum of 20 gallons of water per acre. Use 1/6 pint of Scepter (0.7 ounce of Scepter 70 DG) if cocklebur are less than 3 inches tall or have fewer than 3 leaves and are actively growing. For cockleburs less than 6 inches tall and actively growing use 1/3 pint of Scepter (1.4 ounces of Scepter 70 DG) per acre. Do not use Scepter when soybeans or cockleburs have been subjected to stress conditions such as temperature or moisture extremes. Do not exceed a total of 2/3 pint of Scepter (2.8 ounces of Scepter 70 DG) per acre in one season. Wait at least 10 days after application of Scepter before cultivating.

When preparing the spray mixture with Scepter, add 2 pints of nonionic surfactant approved for use on growing crops and containing at least 80% active ingredient per 100 gallons of mixture. Apply crop oil concentrate (COC) at the rate specified on the COC label.

Use Scepter only in the states where it is registered as listed on the product label.

Apply Scepter at least 90 days before harvest of soybeans. Do not graze or feed soybean forage, hay, or straw to livestock.

Refer to the Scepter label for additional cautions and precautions, directions, limitations, and information on environmental hazards and planting of rotational crops.

## SPLIT-SHOT APPLICATION

A preplant incorporated application of SENCOR 4 tank mixed with either Treflan, Lasso, Dual, Prowl or Sonalan and followed by a preemergence surface application of SENCOR alone after planting but prior to soybean emergence, will control more broadleaf and grass weeds in soybeans than when either herbicide is used alone.

Refer to the Treflan, Lasso, Dual, Prowl or Sonalan labels, and to appropriate sections of this label for directions on soil preparation, herbicide application, incorporation techniques, herbicide rates, weed species controlled, and restrictions for using tank mix combinations of SENCOR. Carefully observe the "Special Precautions" section concerning the use of SENCOR in tank mix combinations on soybeans.

When a Split-Shot application of SENCOR 4 with Prowl, Treflan, or Sonalan is used, the preplant incorporated tank mix may be applied up to 21 days prior to planting soybeans; with Dual or Lasso, the preplant incorporated tank mix may be applied up to 14 days prior to planting.

On medium and fine textured soils with greater than 2% organic matter, a rate range is recommended for the SENCOR 4 preemergence overlay application. The higher rate should be used (a) in fields with a history of severe broadleaf weed pressure, (b) when the time between preplant incorporated tank mix and preemergence overlay applications approaches the maximum stated above, and/or (c) when the organic matter content of the soil is at the upper end of the indicated range.

For black nightshade control, refer to the appropriate sections of the Lasso, Dual, or Sonalan labels for specific instructions.

| SPLIT-SHOT APPLICATION  |   |      |  |                          |                            |   |
|---|---|------|--|--------------------------|----------------------------|---|
| Preplant Incorporated Tank-Mix Application - FOLLOWED BY - Preemergence Overlay Application |   |      |  |                          |                            |   |
| SOIL TEXTURE <sup>1</sup>   | Rate of Combination Product/Acre  | Plus | Rate of SENCOR 4 Pt/Acre                                       | Rate of SENCOR 4 Pt/Acre |                            |   |
|   |   |      |  | ORGANIC MATTER           |                            |   |
|   |   |      |  | Less than 2%             | 2 to 4%                    | Over 4%                                 |
| <b>COARSE (Light)</b><br>sand,<br>loamy sand,<br>sandy loam                                 | Treflan 1 pt<br>or<br>Lasso 2 to 2 1/2 qt<br>or<br>Dual 1 1/4 to 1 1/2 pt<br>or<br>Prowl 1 1/2 pt<br>or<br>Sonalan 1-1/4 to 2 pt  | plus | 1/2-FOLLOWED BY  | 1/4                      | 1/4                        | 1/4 - 1/2                               |
| <b>MEDIUM</b><br>loam,<br>silt loam,<br>sandy clay loam,<br>silt,<br>sandy clay             | Treflan 1 1/2 pt<br>or<br>Lasso 2 1/2 to 3 qt<br>or<br>Dual 1 1/2 pt<br>or<br>Prowl 1 1/2 pt<br>or<br>Sonalan 1-3/4 to 2-1/2 pt   | plus | 3/4-FOLLOWED BY<br><br>or<br><br>1/2 <sup>2</sup> -FOLLOWED BY | 1/4<br><br><br>1/2       | 1/4-1/2<br><br><br>1/2-3/4 | 1/2-3/4<br><br><br>(3/4-1) <sup>3</sup> |
| <b>FINE (Heavy)</b><br>silty clay loam*,<br>clay loam,<br>silty clay,<br>clay               | Treflan 2 pt<br>or<br>Lasso 2 1/2 to 3 qt<br>or<br>Dual 2 to 2 1/2 pt<br>or<br>Prowl 1 1/2 to 2 pt<br>or<br>Sonalan 2-1/4 to 3 pt | plus | 1.0-FOLLOWED BY<br><br>or<br><br>3/4 <sup>2</sup> -FOLLOWED BY | 1/4<br><br><br>1/2       | 1/4-1/2<br><br><br>1/2-3/4 | 1/2-3/4<br><br><br>(3/4-1) <sup>3</sup> |

\*Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

<sup>1</sup>On coarse textured soils, do not use on sand soils with less than 1% organic matter, or on loamy sand or sandy loam soils with less than 0.5% organic matter. However, on coarse textured soils with a calcareous surface area or a Ph of 7.5 or higher, do not use on sand soils with less than 2% organic matter, or on loamy sand or sandy loam soils with less than 1% organic matter.

<sup>2</sup>Use this lower rate of SENCOR 4 in the preplant incorporated tank mix on soils having a calcareous surface area or a pH of 7.5 or higher, and in those situations where soils within a field vary extremely in texture or organic matter content.

<sup>3</sup>Reduce this preemergence overlay rate of SENCOR 4 by 1/4 pt/acre when using SPLIT-SHOT application on soils with over 4% organic matter and which have a calcareous surface area or a pH of 7.5 or higher.

**EXTENDED SPLIT-SHOT APPLICATION**

(Includes No-Till, Reduced-Till, Ridge-Till, Strip-Till, Mulch-Till)

An early preplant (surface-applied or shallow incorporated) application of SENCOR tank mixed with either Dual or Lasso, followed by a preemergence surface application of SENCOR tank mixed with Dual or Lasso after planting but prior to soybean emergence, will control more broadleaf and grass weeds in soybeans than either herbicide used alone.

An Extended SPLIT-SHOT application will decrease the need for tillage and/or contact herbicides for the control of existing vegetation prior to planting, while providing residual control of weeds after planting.

When an Extended SPLIT-SHOT application of SENCOR 4 with Dual or Lasso is used, the preplant tank mix combination may be applied 15 to 30 days prior to planting soybeans. Follow directions on the label accompanying the product for SPLIT-SHOT applications from 0 to 14 days before planting.

Where a rate range is recommended, the higher rates

should be used (a) in fields with a history of severe weed pressure, (b) when the time between early preplant tank mix and preemergence overlay applications approaches the maximum 30 days, (c) when the organic matter content of the soil is at the upper end of the indicated range, (d) when heavy crop residues are present on the soil surface, and/or (e) when the early preplant tank mix application is shallow incorporated (e.g. use 2 to 2-1/2 qt Lasso in the early preplant tank mix when surface applied and use 2-1/2 to 3 qt Lasso when the tank mix is to be lightly incorporated).

When weeds exceed 1 to 1-1/2 inches in height or diameter at application, use a contact herbicide, such as Round-Up® or Gramoxone.

Refer to the Dual or Lasso label, and to appropriate sections of this label for additional information on soil preparation, herbicide application, weeds controlled, precautions, restrictions, limitations and sprayer clean-up.

| EXTENDED SPLIT-SHOT APPLICATION  |  |      |                                |                     |  |      |   |         |         |
|--|--|------|--------------------------------|---------------------|--|------|---|---------|---------|
| Early Preplant Tank Mix Application<br>(Surface-Applied or Shallow Incorporated) |  |      |                                | Followed<br>By      | Preemergence Overlay Application       |      |   |         |         |
| SOIL TEXTURE <sup>1</sup>  | Rate of<br>Combination<br>Product/Acre       | Plus | Rate of<br>SENCOR 4<br>Pt/Acre |                     | Rate of<br>Combination<br>Product/Acre | Plus | Rate of SENCOR 4<br>Pt/Acre<br>ORGANIC MATTER |         |         |
|  |  |      |                                |                     |  |      | 1/2 to<br>2%                                  | 2 to 4% | Over 4% |
| <b>COARSE<br/>(Light)</b><br>Sand,<br>loamy sand,<br>sandy loam                  | Dual 1-1/3 pt<br>or<br>Lasso<br>1-1/2 - 2 qt | plus | 1/2-3/4                        | Dual<br>or<br>Lasso | 2/3 pt<br><br>1 1/2 qt                 | plus | 1/4   | 1/4-1/2 | 1/2     |
| <b>MEDIUM</b><br>Loam,<br>silt loam,<br>sandy clay<br>loam, silt,<br>sandy clay  | Dual 1-3/4 pt<br>or<br>Lasso 2-3 qt          | plus | <sup>2</sup> 3/4 - 1           | Dual<br>or<br>Lasso | 3/4 pt<br><br>1 to 2 qt                | plus | 1/2   | 1/2-3/4 | 3/4-1   |
| <b>FINE<br/>(Heavy)</b><br>Silty clay loam*<br>clay loam,<br>silty clay,<br>clay | Dual 2 pt<br>or<br>Lasso 2-3 qt              | plus | <sup>2</sup> 1 - 1 1/4         | Dual<br>or<br>Lasso | 1 pt<br><br>1 to 2 qt                  | plus | 1/2   | 1/2-3/4 | 3/4-1   |

\*Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

<sup>1</sup> On coarse textured soils, do not use on sand soil with less than 1% organic matter. However, on coarse textured soils with a calcareous surface area or a pH of 7.5 or higher, do not use on sand soils with less than 2% organic matter, or on loamy sand or sandy loam soils with less than 1% organic matter.

<sup>2</sup> Use the lower rate of SENCOR 4 in the early preplant tank mix on soils having a calcareous surface area or a pH of 7.5 or higher, and in those rare situations where soils within a field vary extremely in texture or organic matter content.

**SENCOR plus Sonalan**

**SENCOR plus Sonalan Overlay Application:** SENCOR 4 may be applied as a preemergence overlay application following a preplant incorporated application of Sonalan 3 EC. Consult the Sonalan label for specific directions on use, recommendations, restrictions and any additional weeds not specified on this label.

**SENCOR plus Sonalan Tank Mix Application:** Incorporate the tank mixture into the top 1 to 2 inches of soil within 21 days before planting according to label directions for Sonalan.

Apply SENCOR 4 plus Sonalan preplant incorporated if furrow irrigation is used or when a period of dry weather after application is expected. If soybeans are planted on beds, apply and incorporate the tank mixture after bed formation.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** Sonalan should be uniformly applied and thoroughly mixed into the soil within 2 days after application. For specific application information, refer to the "General Information" section in the front of this label.

| BROADCAST RATES   |                  |                     |
|---|------------------|---------------------|
| Soil Texture  | SENCOR 4 Pt/Acre | Sonalan 3EC Pt/Acre |
| <b>COARSE<sup>1</sup></b><br>(Sandy loam, loamy sand)   | 1/2              | 1 1/4 - 2           |
| <b>MEDIUM<sup>2</sup></b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)   | 3/4              | 1 3/4 - 2 1/2       |
| <b>FINE<sup>3</sup></b><br>Silty clay, silty clay loam <sup>2</sup> , clay, clay loam   | 1                | 2 1/4 - 3           |
| <sup>1</sup> Do not use on coarse soils with less than 1% organic matter.   |                  |                     |
| <sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.  |                  |                     |
| <sup>3</sup> For control of lambsquarters, redroot pigweed, wild mustard, and green and yellow foxtails on alkaline (calcareous) soils in Minnesota, Nebraska, South Dakota, and North Dakota only, apply SENCOR 4 at rates of 1/2 pt/acre on medium soils and 1/2 to 3/4 pt/acre on fine soils regardless of soil organic matter percentage (use 3/4 pt only where soil pH is less than 7.5 and weed pressure is heavy). The 1/2 pt rate of SENCOR 4 in tank mix combination with Sonalan can be applied regardless of soil pH. For control of other weeds not listed on the label, use SENCOR 4 at full rates recommended in the table above, but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher. |                  |                     |

**SPECIAL PRECAUTIONS (SENCOR plus Sonalan):** For additional precautions, restrictions, limitations, incorporation, and sprayer clean-up information, refer to the appropriate sections of this label and the Sonalan label.

For black nightshade control, refer to the Sonalan label for specific rates and application instructions.

**SENCOR plus TREFLAN**

**SENCOR and Treflan Overlay Application:** SENCOR 4 may be applied as a preemergence broadcast or band overlay application following a pre-plant incorporated treatment of Treflan. Consult the Treflan label for specific directions for use, recommendations, restrictions and any additional weeds not specified on this label.

**SENCOR plus Treflan Tank Mix Application:** A single application of a tank mix combination of SENCOR 4 and Treflan EC will control more broadleaf and grass weeds in soybeans than when either herbicide is used alone.

Prepare the soil surface by deep plowing, offset disking or tandem disking prior to the application of the herbicide combination. The soil surface should be well prepared and free of clods and trash.

This SENCOR plus Treflan tank mix combination may be applied and incorporated into the soil up to 10 days before planting.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** For specific application information refer to the "General Information" section in the front of this label.

Apply SENCOR 4 plus Treflan to the soil surface and incorporate in the same operation, if possible. Variable weed control may result from delayed incorporation if SENCOR plus Treflan are applied to a wet, warm soil surface or if the wind velocity is 10 miles per hour or higher. Use machinery that mixes SENCOR plus Treflan thoroughly with the soil. Incorporation may be delayed up to 24 hours after application. Shallow incorporation with implements set to cut less than 2 inches deep may result in erratic weed control. Do not use spike or spring-tooth harrows alone for incorporation.

| BROADCAST RATES  |                      |                        |
|--|----------------------|------------------------|
| SOIL TEXTURE   | SENCOR 4 Pt Per Acre | Treflan EC Pt Per Acre |
| <b>COARSE<sup>1</sup></b><br>(Sandy loam, loamy sand)  | 1/2                  | 1                      |
| <b>MEDIUM</b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)  | 3/4                  | 1 1/2                  |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>2</sup> , clay, clay loam) <sup>3</sup>   | 1                    | 2                      |
| <sup>1</sup> Do not use on coarse soils with less than 1% organic matter.  |                      |                        |
| <sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.   |                      |                        |
| <sup>3</sup> For control of lambsquarters, redroot pigweed, wild mustard, and green and yellow foxtails on alkaline (calcareous) soils in Minnesota, Nebraska, South Dakota, and North Dakota only, apply SENCOR 4 at rates of 1/2 pt/acre on medium soils and 1/2 to 3/4 pt/acre on fine soils regardless of soil organic matter percentage (use 3/4 pt only where soil pH is less than 7.5 and weed pressure is heavy). The 1/2 pt rate of SENCOR 4 in tank mix combination with Treflan can be applied regardless of soil pH. For control of other weeds listed on the label use SENCOR 4 at full rates recommended in the table above, but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher. |                      |                        |

**Incorporation Equipment:**

1. Set PTO-driven equipment (tillers, cultivators, hoes) to cut 2 to 3 inches deep and space rotors to provide a clean sweep of the soil. PTO equipment should not be operated at a speed greater than 4 miles per hour.
2. Set disk to cut 4 to 6 inches deep and operate twice in different directions at 4 to 6 miles per hour.

3. Set mulch treader and other similar disk-type implements to cut 3 to 4 inches deep and operate twice in different directions at 5 to 8 miles per hour.

**For Coarse and Medium Textured Soils Only:**

4. Set rolling cultivator to cut 2 to 4 inches deep and operate twice at 6 to 8 miles per hour. Set bed conditioner (Do-All) to cut 2 to 4 inches deep and operate at 4 to 6 miles per hour.

**SENCOR PLUS TREFLAN (Continued)**

**SPECIAL PRECAUTIONS (SENCOR plus Treflan):**  
Seedling disease, cold weather, excessive moisture, high salt concentration or drought may weaken soybean seedlings and increase possibility of damage from the tank mix. Do not plant soybeans deeper than 2 inches.

In the Central United States, do not plant sorghum or oats for 12 months where the tank mix has been applied unless 20 inches or more of irrigation and/or rainfall (total) was used to produce the crop. If less

than 20 inches total water was used to produce the crop during the year, do not plant either crop for 18 months after the tank mix application. Cool, wet weather conditions during the early stage of growth may increase the possibility of injury to sorghum.

For additional precautions, restrictions, limitations and sprayer clean-up information refer to the appropriate section of this label. Do not use this tank mix combination on soils containing charcoal in Arkansas, Louisiana and Mississippi.

**SENCOR plus DUAL**

**SENCOR plus Dual Overlay Application:** Apply a preplant incorporated treatment of Dual 8E as directed on that product label for use on soybeans. Follow with a preemergence treatment of SENCOR 4 as directed on this label for use on soybeans.

**Preemergence Application:** Dry weather following preemergence application of SENCOR plus DUAL tank mixture may reduce effectiveness. If weeds develop, cultivate uniformly with shallow tillage equipment such as a rotary hoe that will not damage soybeans.

**SENCOR PLUS DUAL TANK MIX APPLICATIONS**

**Preplant Incorporated Application:** Incorporate the tank mixture into the top 2 inches of soil within 14 days before planting using a disk, harrow, rolling cultivator, or similar implement.

**Mixing Instructions:** Refer to the "General Information" section in the front of this label.

Apply SENCOR 4 plus Dual preplant incorporated if furrow irrigation is used or when a period of dry weather after application is expected. If soybeans are planted on beds, apply and incorporate the tank mixture after bed formation.

For information on applying SENCOR in fluid or dry fertilizer refer to the "Application of SENCOR 4 in Fluid Fertilizers" or "Commercial Impregnation and Application of SENCOR 4 on Dry Bulk Fertilizer" under the "General Information" section in the front of this label.

| BROADCAST RATES  |                     |                    |                     |                    |
|--|---------------------|--------------------|---------------------|--------------------|
| SENCOR Plus DUAL Tank Mix Preemergence Applications  |                     |                    |                     |                    |
| SOIL TEXTURE   | ORGANIC MATTER      |                    |                     |                    |
|  | 0.5% to 3%          |                    | Over 3%             |                    |
|  | SENCOR 4<br>Pt/Acre | DUAL 8E<br>Pt/Acre | SENCOR 4<br>Pt/Acre | DUAL 8E<br>Pt/Acre |
| <b>COARSE<sup>1</sup></b><br>(Loamy sand, sandy loam)  | 1/2                 | 1 1/4              | 3/4                 | 1 1/2              |
| <b>MEDIUM</b><br>(Loam, silt loam, silt)   | 3/4                 | 1 1/2              | 1                   | 2                  |
| <b>FINE</b><br>(Silty clay loam <sup>2</sup> ,<br>sandy clay loam, silty clay,<br>sandy clay, clay loam, clay) | 1                   | 2                  | 1 to 1 1/4          | 2 to 2 1/2         |
| <b>MISSISSIPPI DELTA ONLY</b><br>(Silty clay, clay)  | 1 1/2               | 2                  | 1 1/2               | 2 to 2 1/2         |

<sup>1</sup>Do not use on sand soils. Do not apply SENCOR 4 and Dual overlay or tank mix preemergence on loamy sand with less than 2% organic matter.

<sup>2</sup>Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.



| BROADCAST RATES  |                      |                    |                     |                    |
|--|----------------------|--------------------|---------------------|--------------------|
| SENCOR Plus DUAL Tank Mix Preplant Incorporated Applications   |                      |                    |                     |                    |
| SOIL TEXTURE   | ORGANIC MATTER       |                    |                     |                    |
|  | 0.5% to Less Than 3% |                    | 3% or Greater       |                    |
|  | SENCOR 4<br>Pt/Acre  | DUAL 8E<br>Pt/Acre | SENCOR 4<br>Pt/Acre | DUAL 8E<br>Pt/Acre |
| <b>COARSE<sup>1</sup></b><br>(Loamy sand, sandy loam)  | 1/2                  | 1 1/4              | 1/2                 | 1 1/2              |
| <b>MEDIUM</b><br>(Loam, silt loam, silt)   | 3/4                  | 1 1/2              | 3/4                 | 2                  |
| <b>FINE</b><br>(Silty clay loam <sup>2</sup> , sandy clay loam,<br>silty clay, sandy clay, clay loam,<br>clay) | 1                    | 2                  | 1                   | 2 to 2 1/2         |
| <b>MISSISSIPPI DELTA ONLY:</b><br>(Silty clay, clay)   | 1 to 1 1/4           | 2                  | 1 to 1 1/4          | 2 to 2 1/2         |

<sup>1</sup>Do not use on sand soils. Do not apply SENCOR 4 plus Dual tank mix preplant incorporated on sand or loamy sand with less 2% organic matter or crop injury may occur.

<sup>2</sup>Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

**SPECIAL PRECAUTIONS (SENCOR and Dual):**  
For additional precautions, restrictions, limitations, and

sprayer clean-up information refer to the appropriate sections of this label and the Dual label.

**SENCOR Plus PROWL**

**SENCOR plus Prowl Overlay Application:** Apply a preplant incorporated treatment of Prowl as directed on that product label for use on soybeans. Follow with a preemergence treatment of SENCOR 4 as directed on this label for use on soybeans.

This application must be made after planting and before crop emergence. Do not incorporate.

**SENCOR plus Prowl Tank Mix Application Preplant Incorporated Application:** Prepare the soil by plowing or disking to mix previous crop residues into the soil to a depth of 4 to 6 inches.

If cultivation is necessary because of soil crusting, soil compaction or weed germination before rain or irrigation, use shallow tilling equipment such as a rotary hoe that does not damage soybeans.

**Mixing Instructions:** Refer to the "General Information" section in the front of this label.

For specific application information refer to the "General Information" section in the front of this label.

For information on applying SENCOR 4 in fluid or dry fertilizer refer to the "Application Of SENCOR 4 In Fluid Fertilizers" or "Commercial Impregnation And Application Of SENCOR 4 On Dry Bulk Fertilizer" under the "General Information" section in the front of this label.

Incorporate the tank mixture into the top 1 or 2 inches of soil within 7 days after application according to label directions for Prowl. Mechanical incorporation is not required if a rain of one-quarter inch or more occurs within 7 days after application. Soybeans must be planted no later than 7 days after application of the tank mixture.

**SOUTHERN STATES AND EASTERN COASTAL PLAINS**  
For use only in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, Southeastern Missouri "Bootheel" Region and Coastal Plains of Delaware\*, Maryland\*, New Jersey\* and Virginia\*.

**Preemergence Application:** Except for minimum and no-tillage systems, the seed bed should be firm and free of trash and clods.

\*SENCOR/Prowl is not recommended for use on soils with less than 2% organic matter in the coastal plain of New Jersey or the Delmarva Peninsula.

For specific application information refer to the "General Information" section in the front of this label. Do not apply Prowl preemergence north of Interstate 80.

**SENCOR PLUS PROWL (Continued)**

| BROADCAST RATES<br>SENCOR Plus Prowl Tank Mix Applications  |                  |               |
|---|------------------|---------------|
| SOIL TEXTURE  | SENCOR 4 Pt/Acre | Prowl Pt/Acre |
| <b>COARSE<sup>1</sup></b><br>(Sandy loam, loamy sand)   | 1/2              | 1 1/2         |
| <b>MEDIUM</b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)   | 3/4              | 1 1/2         |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>2</sup> , clay, clay loam)   | 1                | 1 1/2 to 2    |
| <sup>1</sup> Do not use on sand soils. Do not use on loamy sand or sandy loam containing less than 1% organic matter.                   |                  |               |
| <sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in certain regions of the U.S. |                  |               |

Do not use on muck or peat soils.

**NORTHEASTERN AND NORTH CENTRAL STATES**  
For use only in Illinois, Indiana, Iowa, Kansas, Kentucky,

Michigan, Minnesota, Nebraska, New York, North Dakota, Ohio, Pennsylvania, South Dakota, Wisconsin and Missouri (except the "Bootheel" Region).

| BROADCAST RATES<br>SENCOR Plus Prowl Tank Mix Applications   |                  |               |                  |               |
|--|------------------|---------------|------------------|---------------|
| SOIL TEXTURE   | ORGANIC MATTER   |               |                  |               |
|  | 1/2 to 3%        |               | Over 3%          |               |
|  | SENCOR 4 Pt/Acre | Prowl Pt/Acre | SENCOR 4 Pt/Acre | Prowl Pt/Acre |
| <b>COARSE<sup>1</sup></b><br>(Sandy loam, loamy sand)  | 1/2              | 1             | 3/4              | 1 1/2         |
| <b>MEDIUM</b><br>(Loam, silt loam, sandy clay, sandy clay loam)  | 3/4              | 1 1/2 to 2    | 3/4 to 1         | 1 1/2 to 2    |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>2</sup> , clay, clay loam)  | 3/4 to 1         | 1 1/2 to 2    | 1 to 1 1/4       | 2 to 2 1/2    |
| <sup>1</sup> Do not use on sand soils. Do not use on loamy sand or sandy loam containing less than 1% organic matter. Where a range of rates is shown for medium and fine soils, use the higher rate if heavy weed infestations are anticipated. |                  |               |                  |               |
| <sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in certain areas of the U.S.  |                  |               |                  |               |

Do not use on muck or peat soils.

**SPECIAL PRECAUTIONS (SENCOR plus Prowl):** Soil incorporation deeper than recommended will reduce weed control and can result in crop injury.

For additional precautions, restrictions, limitations, and sprayer clean-up information, refer to the appropriate sections of this label and the Prowl label.

**SENCOR Plus LASSO**

**SENCOR Plus Lasso Tank Mix Application:**

For specific information regarding spray equipment, dilution rates, mixing, directions for use, methods of application, limitations and restrictions refer to the appropriate section of this label.

**PREEMERGENCE**

SENCOR 4 may be used in a tank mix combination with Lasso as a preemergence band or broadcast application to soybeans in accordance with the specified soil types and dosages recommended.

Refer to the Lasso label for pertinent recommendations, directions for use, restrictions and any additional weeds not specified on this label.

| RECOMMENDED APPLICATIONS  |   |      |               |                                |      |               |
|---|---|------|---------------|--------------------------------|------|---------------|
| SENCOR Plus Lasso Tank Mix Preemergence Application (Broadcast Rates)   |   |      |               |                                |      |               |
| SOIL TEXTURE  | 1/2 to 3% Organic Matter                                  |      |               | Greater than 3% Organic Matter |      |               |
|   | SENCOR 4 Pt/Acre  | Plus | Lasso Qt/Acre | SENCOR 4 Pt/Acre               | Plus | Lasso Qt/Acre |
| <b>COARSE<sup>1</sup></b><br>(Sandy loam)   | 1/2   | plus | 1 1/2 to 2    | 3/4                            | plus | 1 1/2 to 2    |
| <b>MEDIUM<sup>2</sup></b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)   | 3/4   | plus | 1 1/2 to 2    | 1                              | plus | 1 1/2 to 2    |
| <b>FINE<sup>2</sup></b><br>(Silty clay, silty clay loam <sup>3</sup> , clay, clay loam)   | 1   | plus | 2             | 1 to 1 1/4                     | plus | 2 to 2 1/2    |
| <b>MISSISSIPPI DELTA ONLY</b><br>(Silty clay to heavy clay)   | <u>SENCOR 4 Pt/Acre + Lasso Qt/Acre</u><br>2 + 2 to 2 1/2 |      |               |                                |      |               |
| <sup>1</sup> Do not use SENCOR plus Lasso on sand or loamy sand soils with less than 2% organic matter.   |   |      |               |                                |      |               |
| <sup>2</sup> For control of lambsquarters, redroot pigweed, wild mustard, green and yellow foxtails on alkaline (calcareous) soils in Minnesota, Nebraska, South Dakota, and North Dakota only, apply SENCOR 4 at rates of 1/2 pt/acre on medium soils and 1/2 to 3/4 pt/acre on fine soils regardless of soil organic matter percentage (use 3/4 pt only where soil pH is less than 7.5 and weed pressure is heavy). The 1/2 pt/acre rate of SENCOR 4 in tank mix combination with Lasso can be applied regardless of soil pH. For control of other weeds use SENCOR 4 at full rates recommended in the table above, but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher. |   |      |               |                                |      |               |
| <sup>3</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.  |   |      |               |                                |      |               |

Do not use on muck soils.

**PREPLANT INCORPORATED:** For specific application information refer to the "General Information" section in the front of this label.

Apply SENCOR 4 plus Lasso preplant incorporated if furrow irrigation is used or when a period of dry weather after application is expected. If soybeans are planted on beds, apply and incorporate the tank mixture after bed formation. Apply within 7 days prior to planting and shallowly incorporate into the upper 1 to 2 inches of soil.

**SENCOR PLUS LASSO (Continued)**

| RECOMMENDED APPLICATIONS   |                  |               |
|--|------------------|---------------|
| SENCOR Plus Lasso Tank Mix Preplant Incorporated Applications (Broadcast Rates)  |                  |               |
| SOIL TEXTURE   | SENCOR 4 Pt/Acre | Lasso Qt/Acre |
| <b>COARSE<sup>1</sup></b><br>(Loamy sand <i>over 2% organic matter</i> , sandy loam)   | 1/2              | 2 to 2 1/2    |
| <b>MEDIUM</b><br>(Loam, silt loam, silt)   | 3/4              | 2 1/2 to 3    |
| <b>FINE</b><br>(Silty clay loam <sup>2</sup> , sandy clay loam, silty clay, sandy clay, clay loam, clay)                             | 1                | 2 1/2 to 3    |
| <b>MISSISSIPPI DELTA ONLY</b><br>(Silty clay, clay)  | 1 to 1 1/4       | 2 1/2 to 3    |
| <sup>1</sup> Do not use SENCOR plus Lasso on sand or loamy sand soils with less than 2% organic matter.                              |                  |               |
| <sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S. |                  |               |

Do not use on muck soils.

**SPECIAL PRECAUTIONS (SENCOR Plus Lasso):** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label and the Lasso label.

**SENCOR Plus Cannon**

SENCOR 4 may be tank mixed with Cannon 3EC for preplant incorporated application to control certain weeds in soybeans. Refer to the "General Information" section of this label for information on mixing, application, restrictions, special precautions and weeds

controlled by SENCOR 4. See appropriate sections of the Cannon 3EC herbicide label for additional precautionary statements, directions for use, recommendations and additional weeds controlled.

| RECOMMENDED APPLICATIONS   |   |      |                    |                                |      |                    |
|--|---|------|--------------------|--------------------------------|------|--------------------|
| SENCOR Plus Cannon Tank Mix Preplant Incorporated Application (Broadcast Rates)  |   |      |                    |                                |      |                    |
| SOIL TEXTURE   | 1/2 to 3% Organic Matter                              |      |                    | Greater than 3% Organic Matter |      |                    |
|  | SENCOR 4 Pt/Acre                                      | Plus | Cannon 3EC Qt/Acre | SENCOR 4 Pt/Acre               | Plus | Cannon 3EC Qt/Acre |
| <b>COARSE<sup>1</sup></b><br>(Sandy loam)  | 1/2   | plus | 3                  | 3/4                            | plus | 3                  |
| <b>MEDIUM<sup>2</sup></b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)  | 3/4   | plus | 3                  | 1                              | plus | 3                  |
| <b>FINE<sup>2</sup></b><br>(Silty clay, silty clay loam <sup>3</sup> , clay, clay loam)  | 1   | plus | 3                  | 1 to 1 1/4                     | plus | 3                  |
| <b>MISSISSIPPI DELTA ONLY</b><br>(Silty clay to heavy clay)  | <u>SENCOR 4 Pt/Acre + Cannon 3EC Qt/Acre</u><br>2 + 3 |      |                    |                                |      |                    |
| <sup>1</sup> Do not use SENCOR plus Cannon on sand or loamy sand soils with less than 2% organic matter.   |   |      |                    |                                |      |                    |
| <sup>2</sup> For control of lambsquarters, redroot pigweed, wild mustard, green and yellow foxtails on alkaline (calcareous) soils in Minnesota, Nebraska, South Dakota, and North Dakota only, apply SENCOR 4 at rates of 1/2 pt/acre on medium soils and 1/2 to 3/4 pt/acre on fine soils regardless of soil organic matter percentage (use 3/4 pt only where soil pH is less than 7.5 and weed pressure is heavy). The 1/2 pt/acre rate of SENCOR 4 in tank mix combination with Cannon can be applied regardless of soil pH. For control of other weeds use SENCOR 4 at full rates recommended in the table above, but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher. |   |      |                    |                                |      |                    |
| <sup>3</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.   |   |      |                    |                                |      |                    |

Do not use on muck soils.

Do not allow sprays to drift on to adjacent desirable plants.

**SENCOR Plus Command®**

SENCOR 4 may be applied in combination with Command 4EC as a preplant or shallow incorporated application for the control of certain weeds in soybeans. Consult the Command label for specific directions on use, recommendations, restrictions and any additional weeds not specified on this label.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** SENCOR plus Command may only be applied with ground equipment as a preplant or shallow incorporated application. SENCOR plus Command should be immediately incorporated into the top 1-3 inches after application unless surface is dry. On dry soils, incorporate into the top 1-3 inches within 3 hours of tank mix application.

Do not apply this tank mix within 1000 feet of towns and subdivisions, commercial vegetable, fruit, nurseries or greenhouse operations.

A minimum of 15 gallons spray volume per acre is recommended with appropriate nozzle types and sizes to produce a coarse spray droplet. The use of an approved agricultural drift reducing additive is recommended for application volumes of 15-40 gallons

per acre. The use of an approved agricultural drift reducing additive is required at spray volumes of 10-15 gallons per acre.

**NOTE:** Off-site movement of Command spray drift or vapors can cause foliar whitening or yellowing of some vegetation. Prior to application of Command, read and strictly follow all precautions and application instructions as set forth in that label.

For additional information on application, refer to the "General Information" section in the front of this label and the Command label.

**Weeds Controlled:** Bristly Starbur, Carpetweed, Copperleaf, Florida Beggarweed, Florida Pusley, Galinsoga, Jimsonweed, Knotweed, Lambsquarters, Pigweeds, Prickly Sida/Teaweed, Purslane, Common Ragweed, Redweed, Sesbania, Smartweeds, Spurred Anoda, Velvetleaf, Venice Mallow, Wild Mustards, Barnyardgrass\*, Bluegrass, Broadleaf Signalgrass, Crabgrass\*, Foxtails (Green, Giant, Yellow\*, Robust Purple), Goosegrass, Johnsongrass (seedling)\*, Fall Panicum\*, Texas Panicum, and witchgrass.

\*Use 2 pt/A Command 4EC on coarse and medium textured soils with high populations of these weeds.

| RECOMMENDED APPLICATIONS   |                    |                     |                    |                       |
|--|--------------------|---------------------|--------------------|-----------------------|
| SENCOR 4 Plus COMMAND 4EC Tank Mix Preplant Incorporated Application (Broadcast Rates) |                    |                     |                    |                       |
| SOIL TEXTURE <sup>1</sup>  | ORGANIC MATTER     |                     |                    |                       |
|  | 0.5% to 3%         |                     | Over 3%            |                       |
|  | SENCOR 4 (Pt/Acre) | COMMAND 4EC Pt/Acre | SENCOR 4 (Pt/Acre) | COMMAND 4EC (Pt/Acre) |
| <b>COARSE<sup>2</sup></b><br>(Sandy loam, loamy sand)                                  | 1/2                | 1 1/2 - 2           | 1/2                | 1 1/2 - 2             |
| <b>MEDIUM</b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)                  | 1/2 - 3/4          | 1 1/2 - 2           | 1/2 - 3/4          | 1 1/2 - 2             |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>3</sup> , clay, clay loam)            | 1/2 - 3/4          | 1 1/2 - 2           | 3/4 - 1            | 1 1/2 - 2             |

<sup>1</sup>Crop injury may occur on soils having a calcareous surface area or a pH of 7.1 or higher.

<sup>2</sup>Do not use on coarse soils with less than 1% organic matter.

<sup>3</sup>Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

**SPECIAL PRECAUTIONS (SENCOR 4 plus Command):** Do not rotate to wheat, oats, barley, rye, alfalfa or seed corn in the fall of the year of application or in the spring of the following year as crop injury may occur.

Do not apply when weather conditions favor drift. Do not use treated vines for feed or forage.

Do not apply aerially or through irrigation equipment.

## SENCOR Plus Commence®

**SENCOR plus Commence Tank Mix Early Preplant Incorporated Application:** SENCOR 4 in a tank mix with Commence 5.25 EC may be applied broadcast preplant incorporated up to 30 days before planting soybeans for the control of certain broadleaf weeds and grasses. Refer to the Commence herbicide label for additional directions for use, weeds controlled, recommendations, restrictions and limitations not specified on this label.

**Mixing:** Refer to the "General Information" section on this label.

**Application:** For information on applying SENCOR 4, refer to the "General Information" section on this label.

| RECOMMENDED APPLICATIONS   |                     |                             |                     |                             |
|--|---------------------|-----------------------------|---------------------|-----------------------------|
| SENCOR 4 Plus Commence 5.25 EC Tank Mix Early Preplant Incorporated Application* |                     |                             |                     |                             |
| SOIL TEXTURE   | Organic Matter      |                             |                     |                             |
|  | 1/2 - 3%            |                             | Over 3%             |                             |
|  | SENCOR 4<br>Pt/Acre | Commence 5.25 EC<br>Pt/Acre | SENCOR 4<br>Pt/Acre | Commence 5.25 EC<br>Pt/Acre |
| Coarse <sup>b</sup>  | 3/4                 | 1 1/3 to 2                  | 3/4                 | 1 1/3 to 2                  |
| Medium   | 1                   | 2 to 2-1/4                  | 1                   | 2 to 2 1/4                  |
| Fine   | 1                   | 2-2/3                       | 1 1/2               | 2 2/3                       |
| * For use on soils with a pH of 7.5 or lower.                                    |                     |                             |                     |                             |
| * Do not use on coarse soils with less than 1% organic matter.                   |                     |                             |                     |                             |

**Restrictions and Limitations:** Do not apply aerially or through irrigation equipment.

Do not apply when weather conditions favor drift. Do not allow sprays to drift on to adjacent desirable plants. Do not use treated vines for feed or forage.

Do not rotate to wheat, oats, barley, rye, alfalfa or seed corn in the fall of the year of application or in the spring of the following year as crop injury may occur.

**SENCOR plus Commence Tank Mix Preplant Incorporated:** SENCOR 4 may be tank mixed with Commence 5.25 EC for preplant incorporated application to control certain weeds in soybeans. Refer to the "General Information" section of this label for information on mixing, application, restrictions, special precautions and weeds controlled by SENCOR 4. See appropriate sections of the Commence 5.25 EC herbicide label for additional precautionary statements, directions for use, recommendations and additional weeds controlled.

| RECOMMENDED APPLICATIONS  |                       |                               |                       |                               |
|---|-----------------------|-------------------------------|-----------------------|-------------------------------|
| SENCOR Plus Commence Tank Mix Preplant Incorporated Application (Broadcast Rates) |                       |                               |                       |                               |
| SOIL TEXTURE <sup>1</sup>   | Organic Matter        |                               |                       |                               |
|   | 1/2 to 3%             |                               | Over 3%               |                               |
|   | SENCOR 4<br>(Pt/Acre) | Commence 5.25 EC<br>(Pt/Acre) | SENCOR 4<br>(Pt/Acre) | Commence 5.25 EC<br>(Pt/Acre) |
| Coarse <sup>2</sup><br>(Sandy loam, loamy sand)                                   | 1/2                   | 1 1/3 to 2                    | 1/2                   | 1 1/3 to 2                    |
| Medium<br>(Loam, silt loam, silt, sandy clay, sandy clay loam)                    | 1/2 to 3/4            | 2 to 2 1/4                    | 1/2 to 3/4            | 2 to 2 1/4                    |
| Fine<br>(Silty clay, silty clay loam <sup>3</sup> , clay, clay loam)              | 1/2 to 3/4            | 2 2/3                         | 3/4 to 1              | 2 2/3                         |

<sup>1</sup> Crop injury may occur on soils having a calcareous surface area or a pH of 7.1 or higher.

<sup>2</sup> Do not use on coarse soils with less than 1% organic matter.

<sup>3</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

**SPECIAL PRECAUTIONS (SENCOR plus Commence):**

Do not rotate to wheat, oats, barley, rye, alfalfa or seed corn in the fall of the year of application or in the spring of the following year as crop injury may occur.

Do not apply when weather conditions favor drift. Do not use treated vines for feed or forage. Do not apply aerially or through irrigation equipment.

Do not allow sprays to drift on to adjacent desirable plants.



**SENCOR 4 Plus Freedom®**

SENCOR 4 may be tank mixed with Freedom 3 EC for preplant incorporated application to control weeds in soybeans. Refer to the "General Information" section of this label for information on mixing, application, restrictions, special precautions and weeds controlled

by SENCOR 4. See appropriate sections of the Freedom 3 EC herbicide label for additional precautionary statements, directions for use, recommendations and additional weeds controlled.

| RECOMMENDED APPLICATIONS  |  |      |                         |                     |      |                         |
|---|--|------|-------------------------|---------------------|------|-------------------------|
| SENCOR Plus Freedom Tank Mix Preplant Incorporated Application (Broadcast Rates)  |  |      |                         |                     |      |                         |
| SOIL TEXTURE  | Organic Matter   |      |                         |                     |      |                         |
|   | 1/2 to 3%  |      |                         | Greater than 3%     |      |                         |
|   | SENCOR 4<br>Pt/Acre  | Plus | Freedom 3 EC<br>Qt/Acre | SENCOR 4<br>Pt/Acre | Plus | Freedom 3 EC<br>Qt/Acre |
| <b>COARSE</b> <sup>1</sup><br>(Sandy loam)  | 1/2  | Plus | 2 3/4 to 3 1/2          | 3/4                 | Plus | 3 to 3 1/2              |
| <b>MEDIUM</b> <sup>2</sup><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)  | 3/4  | Plus | 2 3/4 to 3 1/2          | 1                   | Plus | 3 1/2 to 4              |
| <b>FINE</b> <sup>2</sup><br>(Silty clay, silty clay loam <sup>3</sup> , clay, clay loam)  | 1  | Plus | 3 1/2 to 4              | 1 to 1 1/4          | Plus | 3 1/2 to 4 1/2          |
| <b>MISSISSIPPI DELTA ONLY</b><br>(Silty clay to heavy clay)   | <u>SENCOR 4 Pt/Acre + Freedom 3 EC Qt/Acre</u><br>2 + 3 1/2 to 4 1/2 |      |                         |                     |      |                         |
| <sup>1</sup> Do not use SENCOR plus Freedom on sand or loamy sand soils with less than 2% organic matter.   |  |      |                         |                     |      |                         |
| <sup>2</sup> For control of lambsquarters, redroot pigweed, wild mustard, green and yellow foxtails on alkaline (calcareous) soils in Minnesota, Nebraska, South Dakota, and North Dakota only, apply SENCOR 4 at rates of 1/2 pt/acre on medium soils and 1/2 to 3/4 pt/acre on fine soils regardless of soil organic matter percentage (use 3/4 pt only where soil pH is less than 7.5 and weed pressure is heavy). The 1/2 pt/acre rate of SENCOR 4 in tank mix combination with Freedom can be applied regardless of soil pH. For control of other weeds use SENCOR 4 at full rates recommended in the table above, but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher. |  |      |                         |                     |      |                         |
| <sup>3</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.  |  |      |                         |                     |      |                         |

Do not use on muck soils.

Do not allow sprays to drift on to adjacent desirable plants.

**SENCOR plus Canopy® plus a Grass Herbicide**

A tank mix combination of SENCOR 4 plus Canopy 75 DF plus a registered and recommended grass herbicide (Dual, Lasso, Prowl, Sonalan or Treflan) is recommended for control of the following weeds in soybeans:

**Weeds Controlled:**

Annual Grasses

- Barnyardgrass
- Bluegrass
- Broadleaf signalgrass
- Browntop Millet
- Crabgrass
- Crowfootgrass
- Foxtails
- Goosegrass
- Johnsongrass (seedling)
- Junglerice
- Panicum, Fall
- Panicum, Texas
- Sandbur
- Sprangletop
- Stinkgrass

Annual Broadleaves

- Bristly Starbur
- Carpetweed
- Cocklebur
- Copperleaf, Hophornbeam
- Florida Beggarweed
- Florida Pusley
- Galinsoga
- Jimsonweed
- Knotweed
- Kochia
- Lambsquarters
- Pigweed
- Prickly Sida/Teaweed
- Purslane
- Ragweed, Common
- Redweed
- Russian Thistle
- Sesbania
- Shepherdspurse
- Smartweed
- Spurred Anoda
- Velvetleaf
- Vernice mallow
- Wild mustard

Tank mix combinations which include Dual, Lasso or Prowl can be applied preemergence broadcast or preplant incorporated broadcast. When Sonalan or Treflan are used in the tank mix, apply preplant incorporated broadcast. Refer to the table below for recommended rates of each product to be used in tank mix combinations:

| RECOMMENDED APPLICATIONS  |                   |                |                 |                 |                   |                         |                     |
|---|-------------------|----------------|-----------------|-----------------|-------------------|-------------------------|---------------------|
| SENCOR 4 Plus Canopy 75 DF Plus A Grass Herbicide (Broadcast Rates) |                   |                |                 |                 |                   |                         |                     |
| SOIL TEXTURE <sup>1</sup>   | Treflan (Pt/Acre) | Dual (Pt/Acre) | Prowl (Pt/Acre) | Lasso (Qt/Acre) | Sonalan (Pt/Acre) | SENCOR 4 (Pt/Acre)      | Canopy DF (Oz/Acre) |
| Coarse <sup>2</sup>   | 1                 | 1 1/4 - 1 1/2  | 1 1/2           | 2 - 2 1/2       | 1 1/4 - 2         | 1/2                     | 3                   |
| Medium  | 1 1/2             | 1 1/2 - 2      | 1 1/2 - 2       | 2 1/2 - 3       | 1 1/4 - 2 1/2     | 1/2 to 3/4 <sup>3</sup> | 3                   |
| Fine  | 2                 | 2 - 2 1/2      | 1 1/2 - 2 1/2   | 2 1/2 - 3       | 2 1/4 - 3         | 3/4 to 1 <sup>3</sup>   | 3 to 4              |

<sup>1</sup> Do not use on soils with a pH greater than 7.0.

<sup>2</sup> Refer to "Soil Texture" paragraph on this label for specific soil classification.

<sup>3</sup> Use the lower rate of SENCOR 4 in preplant incorporated tank-mix as in those situations where soils within a field vary extremely in texture or organic matter content.

Refer to the "General Information" section of this label for mixing and application directions.

**IMPORTANT:** If weeds escape in fields treated with these tank mix combinations, postemergence application of a registered and recommended herbicide will be needed for control.

**SPECIAL PRECAUTIONS:** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of the labels for SENCOR 4 and Canopy 75 DF.

Do not use treated vines or feed or forage.

**SENCOR Plus Command Plus a Grass Herbicide**

SENCOR 4 may be applied with Command 4EC and a grass herbicide (Treflan, Lasso, Dual, Prowl or Sonalan) for the control of certain broadleaf weeds and grasses in soybeans. This combination will provide improved control of heavy infestations of velvetleaf, jimsonweed and common ragweed. SENCOR 4 and Command 4EC plus a grass herbicide may be applied preplant incorporated broadcast. Consult the Command, Treflan, Lasso, Dual Prowl or Sonalan labels for specific directions for use, recommendations, restrictions and additional weeds controlled not specified on this label.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** For specific application information, refer to the "General Information" section in the front of this label.

**Weeds Controlled:**

Annual Grasses

- Barnyardgrass
- Bluegrass
- Broadleaf signalgrass
- Browntop millet
- Crabgrass
- Crowfootgrass
- Foxtails
- Goosegrass
- Johnsongrass (seedling)
- Panicum, Fall
- Witchgrass

Annual Broadleaves

- |                         |                 |
|-------------------------|-----------------|
| Bristly Starbur         | Ragweed, Common |
| Carpetweed              | Redweed         |
| Copperleaf, Hophornbeam | Russian Thistle |
| Florida Beggarweed      | Sesbania        |
| Florida Pusley          | Shepherdspurse  |
| Galinsoga               | Sicklepod       |
| Jimsonweed              | Smartweeds      |
| Knotweed                | Spotted spurge  |
| Kochia                  | Spurred Anoda   |
| Lambsquarters           | Velvetleaf      |
| Pigweeds                | Venice mallow   |
| Prickly Sida/Teaweed    | Wild Mustards   |
| Purslane                |                 |

SENCOR and Command plus Treflan, Lasso, Dual, Prowl or Sonalan will provide suppression (reduce the competition) of cocklebur and sunflower.

| RECOMMENDED APPLICATIONS<br>SENCOR 4 Plus Command Plus A Grass Herbicide<br>Broadcast Rates  |                   |                |                 |               |                   |                         |                                    |
|--|-------------------|----------------|-----------------|---------------|-------------------|-------------------------|------------------------------------|
| SOIL TEXTURE <sup>1</sup>  | Treflan (Pt/Acre) | Dual (Pt/Acre) | Prowl (Pt/Acre) | Lasso Qt/Acre | Sonalan (Pt/Acre) | SENCOR 4 (Pt/Acre)      | Command 4EC <sup>3</sup> (Pt/Acre) |
| Coarse   | 1                 | 1 1/4 - 1 1/2  | 1 1/2           | 2 - 2 1/2     | 1 1/4 - 2         | 1/2                     | 1/2 to 3/4                         |
| Medium   | 1 1/2             | 1 1/2 - 2      | 1 1/2 - 2       | 2 1/2 - 3     | 1 3/4 - 2 1/2     | 1/2 to 3/4 <sup>2</sup> | 1/2 to 3/4                         |
| Fine   | 2                 | 2 - 2 1/2      | 1 1/2 - 2 1/2   | 2 1/2 - 3     | 2 1/4 - 3         | 3/4 to 1 <sup>2</sup>   | 1/2 to 3/4                         |
| <sup>1</sup> Refer to "Soil Texture" paragraph on this label for specific soil classification. On coarse textured soils with a calcareous surface area or a pH of 7.5 or higher, do not use on loamy sand or sandy loam soils with less than 1% organic matter.  |                   |                |                 |               |                   |                         |                                    |
| <sup>2</sup> The higher rate of SENCOR 4 is recommended for the control of sicklepod and hemp sesbania. Use the lower rate of SENCOR 4 in the preplant incorporated tank mix on soils having a calcareous surface area or a pH of 7.5 or higher, and in those situations where soils within a field vary extremely in texture or organic matter content. |                   |                |                 |               |                   |                         |                                    |
| <sup>3</sup> Higher rate is recommended under moderate to heavy weed infestations.   |                   |                |                 |               |                   |                         |                                    |

**SENCOR plus Scepter plus a Grass Herbicide**

SENCOR 4 may be applied with Scepter herbicide and a grass herbicide (Treflan, Lasso, Dual, Prowl or Sonalan) for the control of certain broadleaf weeds and grasses in soybeans. SENCOR and Scepter plus Treflan or Sonalan may be applied preplant incorporated broadcast. SENCOR and Scepter plus Lasso, Dual or Prowl may be applied preplant incorporated, preemergence broadcast or in a band application.

Consult the Scepter, Treflan, Lasso, Dual, Prowl or Sonalan labels for specific directions for use, recommendations, restrictions and additional weeds controlled not specified on this label.

Mixing: Refer to the "General Information" section in the front of this label.

Application: For specific application information, refer to the "General Information" section in the front of this label.

**Weeds Controlled:** SENCOR 4 plus Scepter plus Treflan, Lasso, Dual, Prowl or Sonalan will control the following broadleaf weeds and grasses:

Annual Grasses

- Barnyardgrass
- Bluegrass
- Broadleaf signalgrass
- Browntop Millet
- Crabgrass
- Crowfootgrass
- Foxtails
- Goosegrass
- Johnsongrass (seedling)
- Panicum, Fall
- Witchgrass

Annual Broadleaves

- Bristly Starbur
- Buffalobur
- Carpetweed
- Cocklebur
- Coffee Senna
- Copperleaf, Hophornbeam
- Florida Beggarweed
- Florida Pusley
- Galinsoga
- Jimsonweed
- Knotweed
- Kochia
- Lambsquarters
- Morningglory, pitted
- Morningglory, smallflower
- Pigweeds
- Prickly Sida/Teaweed
- Purslane
- Ragweed, Common
- Redweed
- Russian Thistle
- Sesbania
- Shepherdspurse
- Sicklepod
- Smartweeds
- Spotted spurge
- Spurred Anoda
- Sunflower
- Velvetleaf
- Venice mallow
- Wild mustards

SENCOR and Scepter plus Treflan, Lasso, Dual, Prowl or Sonalan will suppress (reduce the competition of) ivyleaf and tall morningglory, and red rice.

| RECOMMENDED APPLICATIONS (Broadcast Rates) |                |               |               |              |                |                        |   |                                   |
|--|----------------|---------------|---------------|--------------|----------------|------------------------|---|-----------------------------------|
| Soil Texture <sup>1</sup>                  | Treflan (Pt/A) | Dual (Pt/A)   | Prowl (Pt/A)  | Lasso (Qt/A) | Sonalan (Pt/A) | SENCOR 4 (Pt/A)        | Scepter (1.5 Lb/Gal liquid <sup>3</sup> Pt/A)<br>- or - | Scepter 70 DG <sup>3</sup> (Oz/A) |
| Coarse                                     | 1              | 1 1/4 - 1 1/2 | 1 1/2         | 2 - 2 1/2    | 1 1/4 - 2      | 1/2                    | 1/3 - 1/2   | 1.4 to 2.1                        |
| Medium                                     | 1 1/2          | 1 1/2 - 2     | 1 1/2 - 2     | 2 1/2 - 3    | 1 3/4 - 2 1/2  | 1/2 - 3/4 <sup>2</sup> | 1/3 - 1/2   | 1.4 to 2.1                        |
| Fine                                       | 2              | 2 - 2 1/2     | 1 1/2 - 2 1/2 | 2 1/2 - 3    | 2 1/4 - 3      | 3/4 to 1 <sup>2</sup>  | 1/3 - 1/2   | 1.4 to 2.1                        |

<sup>1</sup> Refer to "Soil Texture" paragraph on this label for specific soil classification. On coarse textured soils with a calcareous surface area or a pH of 7.5 or higher, do not use on loamy sand or sandy loam soils with less than 1% organic matter.

<sup>2</sup> The higher rate of SENCOR 4 is recommended for preemergence tank mix application and for the control of sicklepod and hemp sesbania. Use the lower rate of SENCOR in the preplant incorporated tank mix on soils having a calcareous surface area or a pH of 7.5 or higher, and in those situations where soils within a field vary extremely in texture or organic matter content.

<sup>3</sup> Higher rate is recommended under moderate to heavy weed infestations.

**SENCOR Plus Pursuit® and a Grass Herbicide**

SENCOR 4 may be tank mixed with Pursuit herbicide and a registered and recommended grass herbicide (Dual, Lasso, Prowl, Sonalan or Treflan) for control of certain broadleaf and grass weeds in soybeans. Refer to the product labels for Pursuit, Dual, Lasso, Prowl, Sonalan or Treflan for additional directions for use, recommendations, restrictions and limitations not included on this label.

Tank mix combinations of SENCOR 4, Pursuit and Dual, Lasso or Prowl can be applied broadcast preemergence or preplant incorporated. When the grass herbicide used is Sonalan or Treflan, apply the tank mix broadcast preplant incorporated.

**Mixing and Application:** Refer to the "General Information" section of this label for directions on mixing and application of SENCOR 4.

| RECOMMENDED APPLICATIONS<br>SENCOR 4 Plus Pursuit and a Grass Herbicide* (Broadcast Rates) |                    |                   |
|--|--------------------|-------------------|
| Soil Texture   | SENCOR 4 (Pt/Acre) | Pursuit (Oz/Acre) |
| Coarse   | 1/2                | 4                 |
| Medium   | 3/5 to 3/4         | 4                 |
| Fine   | 3/4 to 1           | 4                 |

\*For control of grass weeds, include Dual, Lasso, Prowl, Sonalan or Treflan at label rates in the tank mix with SENCOR 4 and Pursuit herbicides.

**Restrictions and Limitations:** Do not apply this tank mix with aerial or irrigation equipment. Do not apply when weather conditions favor drift, or allow sprays to drift

on to adjacent desirable plants. Do not use treated vines for feed or forage. Refer to appropriate sections of the Pursuit herbicide label for restrictions on use area and rotational crops.

**SENCOR Plus Pursuit Plus Herbicide**

SENCOR 4 may be tank mixed with Pursuit Plus herbicide for broadcast preemergence or preplant incorporated application to soybeans for control of certain broadleaf and grass weeds. Refer to the Pursuit Plus herbicide label for additional directions for use,

recommendations, restrictions and limitations not included on this label.

**Mixing and Application:** Refer to the "General Information" section of this label for directions on mixing and application of SENCOR 4.

| RECOMMENDED APPLICATIONS<br>SENCOR 4 Plus Pursuit Plus Herbicide (Broadcast Rates) |                    |                        |
|--|--------------------|------------------------|
| Soil Texture   | SENCOR 4 (Pt/Acre) | Pursuit Plus (Pt/Acre) |
| Coarse   | 1/2                | 2 1/2                  |
| Medium   | 3/5 to 3/4         | 2 1/2                  |
| Fine   | 3/4 to 1           | 2 1/2                  |

**Restrictions and Limitations:** Do not apply this tank mix with aerial or irrigation equipment. Do not apply when weather conditions favor drift, or allow sprays to drift on to desirable plants.

Do not use treated vines for feed or forage.

Refer to appropriate sections of the Pursuit Plus herbicide label for restrictions on use area and rotational crops.

## SENCOR Plus SURFLAN

SENCOR 4 may be used in a tank mix combination with Surflan A.S. as a preemergence application to control weeds in soybeans in accordance with the specified soil types and dosages recommended. Consult the Surflan label for specific directions for use, recommendations, restrictions and any additional weeds not specified on this label.

**Mixing Instructions:** Refer to the "General Information" section in the front of this label.

**Application:** Apply within 2 days after planting but before crop emergence.

A one-half inch rain or more, or its equivalent in overhead irrigation, is needed to activate the herbicide combination. If a one-half inch rain does not occur within 7 days after application, incorporate the herbicide combination into the top one inch of the soil with a ground-driven rotary hoe, rolling cultivator, or similar implement that will not damage soybean plants. Cultivation will control emerging annual weeds and grasses and improve herbicidal effectiveness. If heavy rains pack the soil surface, rotary hoe to break the crust and to aid soybean emergence.

For specific information on application, refer to the "General Information" section in the front of this label.

| <b>RECOMMENDED APPLICATIONS</b><br>SENCOR Plus SURFLAN (Broadcast Rates)   |                       |                           |
|--|-----------------------|---------------------------|
| SOIL TEXTURE   | SENCOR 4<br>(Pt/Acre) | SURFLAN A.S.<br>(Qt/Acre) |
| <b>COARSE<sup>1</sup></b><br>(Sand, sandy loam, loamy sand)  | 1/2                   | 1/2 to 3/4                |
| <b>MEDIUM</b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)  | 3/4                   | 3/4 to 1                  |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>2</sup> , clay, clay loam)  | 1                     | 1 to 1 1/4                |
| <b>MISSISSIPPI DELTA ONLY</b>  | 1 to 1 1/4            | 1 to 1 1/4                |
| <sup>1</sup> Not recommended on sand with less than 1% organic matter. Do not use on soils containing more than 5% organic matter.   |                       |                           |
| <sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S. |                       |                           |

**SPECIAL PRECAUTIONS (SENCOR plus Surflan):** Do not plant root crops for 12 months following application. Do not contaminate any body of water nor apply to any area not specified on the label.

For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate section of this label and the Surflan A.S. label.

## SENCOR Plus AMIBEN

**SENCOR plus Amiben Preemergence Tank Mix Application:** SENCOR 4 may be applied in a tank mix combination with Amiben 2 as a band or broadcast application to soybeans.

| RECOMMENDED APPLICATIONS   |   |      |                      |                     |      |                      |
|--|---|------|----------------------|---------------------|------|----------------------|
| SENCOR Plus Amiben Preemergence Tank Mix Application   |   |      |                      |                     |      |                      |
| SOIL TEXTURE   | Organic Matter  |      |                      |                     |      |                      |
|  | 1/2 to 3%   |      |                      | Greater than 3%     |      |                      |
|  | SENCOR 4<br>Pt/Acre                                       | Plus | Amiben 2<br>Gal/Acre | SENCOR 4<br>Pt/Acre | Plus | Amiben 2<br>Gal/Acre |
| <b>COARSE<sup>1</sup></b><br>(Sandy loam, loamy sand)  | 1/2   | Plus | 3/4 to 1             | 3/4                 | Plus | 3/4 to 1             |
| <b>MEDIUM</b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)  | 3/4   | Plus | 3/4 to 1             | 1                   | Plus | 1 to 1 1/4           |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>2</sup> , clay, clay loam)  | 1   | Plus | 1 to 1 1/4           | 1 to 1 1/4          | Plus | 1 to 1 1/4           |
| <b>MISSISSIPPI DELTA ONLY</b><br>(Silty clay to heavy clay)  | <u>SENCOR 4 Pt/Acre + Amiben Gal/Acre</u><br>2 Plus 1 1/2 |      |                      |                     |      |                      |
| <sup>1</sup> Do not use on sandy loam or loamy sand soil with less than 2% organic matter. Do not use on sand soils.                 |   |      |                      |                     |      |                      |
| <sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S. |   |      |                      |                     |      |                      |

Do not use on muck soils.

Where a rate range is specified, use the higher rate in fields with a history of intense weed pressure. See "Rate Ranges" in the front of the "Soybeans" section on this label.

For additional precautions and information regarding spray equipment, mixing, application, limitations and restrictions refer to the appropriate section of this label and the Amiben label.

**SENCOR plus Linuron Plus (Lasso or Dual)**

**SENCOR plus linuron plus (Lasso or Dual) Tank Mix Application:** SENCOR 4 may be applied in combination with linuron 50 DF or 4L and Lasso 4 or Dual 8 EC as a preemergence application for the control of certain weeds in soybeans. Consult the linuron, Lasso, or Dual labels for specific directions for use, recommendations, restrictions and any additional weeds not specified on this label.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** Applications can be made only with ground spray equipment in accordance with specified soil types and dosage rates. For specific application information, refer to the "General Information" section in the front of this label.

| SENCOR Plus Linuron Plus (Lasso or Dual)<br>Broadcast Rates<br>(0.5 to 3% Organic Matter Only)                                       |                       |  |                      |    |                        |
|--|-----------------------|--|----------------------|----|------------------------|
| SOIL TEXTURE   | SENCOR 4<br>(Pt/Acre) | Linuron 50 DF<br>(Lb/Acre)<br>or 4L<br>(Pt/Acre) | Lasso 4<br>(Qt/Acre) | or | Dual 8 EC<br>(Pt/Acre) |
| <b>COARSE<sup>1</sup></b><br>(Sandy, loamy sand, sandy loam)   | 1/4 to 3/8            | 1/3 to 1/2                                       | 3/4 to 1             | or | 1 to 1 1/4             |
| <b>MEDIUM</b><br>(Loam, silt loam, silt, sandy clay,<br>sandy clay loam)   | 3/8 to 1/2            | 1/2 to 3/4                                       | 1 to 1 1/2           | or | 1 1/4 to 1 1/2         |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>2</sup> , clay, clay loam)  | 1/2 to 3/4            | 3/4 to 1 1/2                                     | 1 1/4 to 2           | or | 1 1/2 to 2             |
| <sup>1</sup> Do not use SENCOR plus linuron plus (Lasso or Dual) on sand soils with less than 1% organic matter.                     |                       |  |                      |    |                        |
| <sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S. |                       |  |                      |    |                        |

**SPECIAL PRECAUTIONS (SENCOR plus Linuron plus (Lasso or Dual):** For additional precautions, restrictions, limitations, and sprayer clean-up information, refer to

the appropriate sections of this label and the linuron label and the Lasso or Dual labels.

**FOR USE IN COARSE (LIGHT) SOILS IN Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia.**

SENCOR 4 herbicide is recommended alone or in combination with Treflan, Lasso, Dual, Surflan or Amiben for use in coarse-textured, low organic matter soils in the states listed above for the control of certain weeds in soybeans. Refer to the appropriate sections of this label and the Treflan, Lasso, Dual, Surflan or Amiben labels for specific directions for use, recommendations, restrictions and any additional weeds not specified on this label.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** For specific application information, refer to the "General Information" section in the front of this label.



**SENCOR (Alone) Preemergence Application  
Broadcast Rates**

| SOIL TEXTURE  | ORGANIC MATTER | SENCOR 4 Pt/ACRE        |
|---|----------------|-------------------------|
| COARSE (LIGHT) SOILS<br>Sand <sup>1</sup> , Loamy Sand, Sandy Loam                                    | 0.5% or Above  | 1/2 to 3/4 <sup>2</sup> |
| <sup>1</sup> Not recommended for use on sand with less than 1% organic matter.                        |                |                         |
| <sup>2</sup> Use the higher rate under heavy weed pressures and/or on soils higher in organic matter. |                |                         |

**SENCOR in Combination with Other Herbicides:**  
SENCOR 4 is recommended in a tank-mix combination with Treflan as a preplant incorporated application or as a preemergence overlay application following a preplant

incorporated application of Treflan. SENCOR 4 is also recommended for use as a preemergence application in combination with Lasso, Dual, Surflan or Amiben.

**FOR USE IN COARSE (LIGHT) SOILS (Broadcast Rates)**

| SOIL TEXTURE  | ORGANIC MATTER | COMBINATION PRODUCT/ACRE                     | PLUS | SENCOR 4 Pt/ACRE        |
|---|----------------|--|------|-------------------------|
| COARSE (LIGHT) SOILS<br>Sand <sup>1</sup> , Loamy sand, Sandy loam                                    | 0.5% or Above  | Preplant Incorporated<br>Treflan 4EC 1 pt    | Plus | 1/2 to 3/4 <sup>2</sup> |
|   |                | Preemergence Plus<br>Lasso 4EC 1 1/2 to 2 qt | Plus | 1/2 to 3/4 <sup>2</sup> |
|   |                | Dual 8EC 1 1/4 to 1 1/2 pt                   | Plus | 1/2 to 3/4 <sup>2</sup> |
|   |                | Surflan A.S. 1/2 to 3/4 qt                   | Plus | 1/2 to 3/4 <sup>2</sup> |
|   |                | Amiben 2 3/4 to 1 gal                        | Plus | 1/2 to 3/4 <sup>2</sup> |
| <sup>1</sup> Not recommended for use on sand with less than 1% organic matter.                        |                |  |      |                         |
| <sup>2</sup> Use the higher rate under heavy weed pressures and/or on soils higher in organic matter. |                |  |      |                         |

**SPECIAL PRECAUTIONS:** Do not use on sand soils with less than 1% organic matter, or on sandy loam or loamy sand soils with less than 0.5% organic matter.

For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label and the Treflan, Lasso, Dual, Surflan or Amiben labels.

**FOR CONTACT ACTION AND RESIDUAL CONTROL:** For Control of Emerged Annual Broadleaf Weeds and Grasses and For Suppression of Emerged Perennials Where Soybeans Will Be Planted Directly Into a Pre-formed Bed, Cover Crop or in Previous Crop Residues as in "Minimum Till" or "No Till" Crop Production.

**SENCOR plus GRAMOXONE**

**SENCOR plus Gramoxone Tank Mix Application:** Apply 1 1/3 to 2 2/3 pt Gramoxone Super plus 3/4 to 2 pt SENCOR 4 according to the recommendations for SENCOR on this label as a broadcast ground spray before, during or after planting but before emergence of the crop. Soybeans exposed at time of application will be killed. Use the higher rate of Gramoxone for heavier

infestations or for taller weeds (4 to 6 inches tall). Apply in 20 to 60 gallons spray mix per acre. Use the higher volume in fields with heavy weed infestations or with large amounts of previous crop residues. Add Ortho X-77 Spreader or similar non-ionic spreader at 1 quart per 100 gallons of diluted spray. This mixture will not control weeds taller than 6 inches.

**SENCOR plus LASSO and GRAMOXONE**

**SENCOR plus Lasso and Gramoxone Tank Mix Application:** Apply 1 1/3 to 2 2/3 pt of Gramoxone Super plus 2 to 2 1/2 qt Lasso 4 E.C. plus 1/2 to 2 pt SENCOR 4 as a preemergence broadcast ground spray. Use the higher rate of Gramoxone for weeds 4 to 6 inches tall. Soybeans exposed at time of application will be killed. Refer to the appropriate sections of this label and the Gramoxone and Lasso labels for rates which are dependent upon soil textures, directions, limitations and cautions.

Apply in 20 to 60 gallons spray mix per acre. Use the higher volume in fields with heavy weed infestations or with large amounts of previous crop residues. Add Ortho X-77<sup>®</sup> Spreader or similar non-ionic spreader at 8 fl oz per 100 gallons of diluted spray. Add SENCOR to the spray tank first and mix thoroughly. Then add Lasso followed by Gramoxone and X-77 Spreader. Constant agitation is recommended at all times. This tank mix will not control shattercane which emerges after treatment or other weeds taller than 6 inches.

**SENCOR plus SURFLAN and GRAMOXONE**

**SENCOR plus Surflan and Gramoxone Tank Mix Application:** The combination provides control of weeds and grasses which are emerged at the time of application plus many weeds and grasses which may germinate after planting. Soybeans exposed at time of application will be killed.

**Weeds Controlled by Gramoxone:** Gramoxone will kill emerged annual broadleaf weeds and grasses and provide top kill of perennials.

**When to Apply:** Apply the tank mix at planting or within 2 days after planting. Do not spray over top of emerged soybeans.

| SENCOR plus Surflan and Gramoxone Preemergence Tank Mix Application Broadcast Rates Per Acre |          |              |                 |
|--|----------|--------------|-----------------|
| SOIL TEXTURE   | SENCOR 4 | SURFLAN A.S. | GRAMOXONE SUPER |
| COARSE <sup>1</sup>  | 1/2 Pt   | 3/4 Qt       | 2 2/3 Pt        |
| MEDIUM   | 3/4 Pt   | 1 Qt         | 2 2/3 Pt        |
| FINE   | 1 Pt     | 1 1/2 Qt     | 2 2/3 Pt        |

<sup>1</sup>Not recommended on sand soils with less than 1% organic matter.

Do not use on soils containing more than 5% organic matter.

**MIXING:** Refer to the "General Information" section in the front of this label.

Add Ortho X-77 or similar non-ionic spreader at 8 fl oz per 100 gallons of diluted spray mixture.

**APPLICATION:** For specific application information refer to the "General Information" section in the front of this label. One-half inch of rain or more or its equivalent in overhead irrigation is needed to activate the herbicide combination.

**SPECIAL PRECAUTIONS (SENCOR plus Surflan and Gramoxone):** Poor weed control and/or crop injury may result if directions are not followed.

Do not use a rib-type press wheel on your no-till planter or crop injury may result.

For additional precautions, special precautions, restrictions, limitations and sprayer cleanup information, refer to the appropriate section of this label and the Surflan and Gramoxone labels.

## SENCOR Plus 2,4-D Low Volatile Ester (LVE)

SENCOR 4 plus 2,4-D LVE or a three-way tank mix combination of SENCOR 4 plus 2,4-D LVE with Dual, Lasso, or Prowl herbicides may be applied for residual control and burndown of broadleaf weeds. Use a tank mix when soybeans are directly seeded into a stale seedbed, cover crop, established sod, or in previous crop residues. Apply as a preplant broadcast spray to the soil surface. Refer to the "SENCOR Alone" section of this label for recommended rates of SENCOR 4 in a tank mix with 2,4-D LVE. Refer to the tank mix

sections of this label for recommended rates of SENCOR 4, Dual, Lasso, or Prowl in a three-way tank mix with 2,4-D LVE.

**Weeds Controlled:** SENCOR 4 alone or in combination with Dual, Lasso, or Prowl herbicide plus 2,4-D LVE herbicide will give burndown and residual control of the following emerged weeds. Refer to the 2,4-D LVE herbicide label for weed height restrictions.

| Common Weed Name       | Scientific Name                 |
|------------------------|---------------------------------|
| Common chickweed       | <i>Stellaria media</i>          |
| Common cocklebur       | <i>Xanthium strumarium</i>      |
| Common lambsquarter    | <i>Chenopodium album</i>        |
| Common ragweed         | <i>Ambrosia elatior</i>         |
| Common sunflower       | <i>Helianthus annuus</i>        |
| Henbit                 | <i>Lamium amplexicaule</i>      |
| Jimsonweed             | <i>Datura stramonium</i>        |
| Kochia                 | <i>Kochia scoparia</i>          |
| Ladysthumb smartweed   | <i>Polygonum persicaria</i>     |
| Marestail              | <i>Conyza canadensis</i>        |
| Pennsylvania smartweed | <i>Polygonum pennsylvanicum</i> |
| Pennycress             | <i>Thlaspi arvense</i>          |
| Prostrate pigweed      | <i>Amaranthus blitoides</i>     |
| Purple deadnettle      | <i>Lamium purpureum</i>         |
| Redroot pigweed        | <i>Amaranthus retroflexus</i>   |
| Smooth pigweed         | <i>Amaranthus hybridis</i>      |
| Wild mustard           | <i>Sinapis arvensis</i>         |
| Tall waterhemp         | <i>Amaranthus tuberculatus</i>  |
| Velvetleaf             | <i>Abutilon theophrasti</i>     |

For additional weeds controlled, refer to the appropriate section of this label and the 2,4-D LVE, Dual, Lasso or Prowl labels.  
**2,4-D LVE herbicide use rates for Reduced-Tillage Combinations**

| Method of Application   | 2,4-D LVE Pt/Ac <sup>1,2,3,4,5,6</sup> | Minimum Preplant Interval, Days |
|---|--|---------------------------------|
| Preplant  | 1/2<br>1                               | 7<br>30                         |
| <sup>1</sup> The application rate of 2,4-D LVE herbicide is based on, but not restricted to, a product containing 3.8 lb acid equivalent (a.e.)/gallon. The equivalent rates in pt acid equivalent would be: 1/2 pt/acre = 0.24 pt a.e./acre and 1 pt/acre = 0.48 pt a.e./acre. |  |                                 |
| <sup>2</sup> 2,4-D LVE herbicide is isooctyl (2-ethylhexyl) ester of 2,4-dichlorophenoxyacetic acid (e.g., Esteron 99 or Salvo herbicide).  |  |                                 |
| <sup>3</sup> Flat fan nozzles that minimize drift are recommended. Use a minimum of 10 gallons total spray volume per acre with ground equipment or a minimum of 5 gallons total spray volume per acre with aerial equipment.   |  |                                 |
| <sup>4</sup> Make only one application of 2,4-D LVE herbicide per growing season, regardless of the application rate used.  |  |                                 |
| <sup>5</sup> When 2,4-D LVE herbicide is applied, do not feed hay, forage, or fodder. Restrict livestock from grazing treated fields. Livestock should be restricted from feeding/grazing of treated cover crops.   |  |                                 |
| <sup>6</sup> Refer to the 2,4-D LVE herbicide label for precautionary statements, restrictions and mixing instructions. Read the crop injury statements on the 2,4-D LVE herbicide label and use only if these statements are acceptable.                                       |  |                                 |

Refer to this label and the 2,4-D LVE, Dual, Lasso, and Prowl labels for additional weeds controlled, precautions, restrictions, limitations and sprayer clean-up information.

Observe all cautions and limitations on labeling of all products used in mixtures.

**SOUTHERN AND SOUTHEASTERN STATES ONLY  
POSTEMERGENCE DIRECTED SPRAY APPLICATIONS**

SENCOR 4 can be applied in postemergence directed sprays to soybeans for control of certain weeds which escape preplant or preemergence herbicide applications and for control of additional flushes of weeds that may occur after soybeans have emerged. Postemergence directed sprays of SENCOR 4 can be applied to soybeans in addition to a preemergence or preplant application of SENCOR herbicide according to label directions.

**Weeds Controlled:** SENCOR 4, applied postemergence to soybeans as a directed spray according to directions on this label, will control the following at rates shown (broadcast basis) when grasses and common ragweed are less than 1 inch tall and other broadleaves are less than 3 inches tall:

| 1/2 Pt/Acre  | 1/2 to 1 Pt/Acre  | 1 Pt/Acre   |
|--|---|---|
| <p>Florida beggarweed<br/>(<i>Desmodium tortuosum</i>)<br/>Pigweeds<br/>(<i>Amaranthus</i> spp.)<br/>Carpetweed<br/>(<i>Mollugo verticillata</i>)<br/>Cocklebur<br/>(<i>Xanthium pensylvanicum</i>)<br/>Dayflower<br/>(<i>Commelina</i> spp.)<br/>Mexicanweed<br/>(<i>Caperonia castaniifolia</i>)<br/>Purslane<br/>(<i>Portulaca oleracea</i>)<br/>Sicklepod<br/>(<i>Cassia obtusifolia</i>)<br/>Velvetleaf<br/>(<i>Abutilon theophrasti</i>)<br/>Crabgrass<br/>(<i>Digitaria</i> spp.)</p> | <p>Sesbania<br/>(<i>Sesbania</i> spp.)<br/>Prickly sida/Teaweed<br/>(<i>Sida spinosa</i>)</p> | <p>Ragweed, common<br/>(<i>Ambrosia artemisiifolia</i>)</p> |

At the rate of 1/2 pt/acre morningglory species, (*Ipomoea* spp.) horsenettle, (*Solanum* spp.) Florida pusley, (*Richardia scabra*) spotted spurge (*Euphorbia maculata*) and wild poinsettia (*Euphorbia heterophylla*)

are suppressed when SENCOR 4 is applied before these weeds are 3 inches tall. The 1 pt/acre rate will suppress broadleaf signalgrass (*Brachiaria platyphylla*) up to 1 inch tall.

**SENCOR POSTEMERGENCE DIRECTED SPRAY**

| RECOMMENDED APPLICATIONS  |                               |   |
|---|-------------------------------|---|
| CROP  | SENCOR 4 Pt/Acre              | REMARKS   |
| Soybeans<br>(Alabama,<br>Arkansas,<br>Florida,<br>Georgia,<br>Kentucky,<br>Louisiana<br>Mississippi,<br>Missouri<br>North Carolina<br>Oklahoma<br>South Carolina<br>Tennessee and<br>Texas) | 1/2 to 1<br>(Broadcast Basis) | Apply proper dosage using 10 to 40 gallons of water per acre as a directed spray in a 6 to 8 inch band on each side of the row after soybeans are 8 inches tall and before broadleaf weeds are 3 inches tall and before grasses and common ragweed are 1 inch tall. For best results the spray must cover weed foliage with minimum or no contact with soybean foliage. Add a nonionic surfactant such as Ortho X-77 to the spray mixture to obtain better wetting of weed leaf surfaces. To determine the correct dosage of SENCOR 4 for a band application see "Banded Application" under the "General Information" section in the front of this label.<br><br>If necessary, a second postemergence directed spray application can be made after 7 days.<br><br>Do not feed or graze green soybean vines. Do not harvest soybeans or use dry soybean vines for feed or forage within 70 days of last application. |

**SPECIAL PRECAUTIONS (Directed Postemergence):** Do not apply directly to soybeans or serious crop injury will occur. Do not allow spray to contact more than the lower 1/4 to 1/3 of soybean plants. Soybean leaves contacted by the spray will be killed.

To avoid injury to other crops or desirable plants from spray drift, sprayer pressure must not exceed 30 psi and the sprayer must be fitted with nozzles no smaller than 8002 T-Jet (or equivalent). Do not apply under weather conditions which favor drift.

Do not apply SENCOR 4 postemergence to sensitive soybean varieties. See "Special Precautions" in the front of this label.

**POTATOES**

SENCOR herbicide is recommended for use in ground or aircraft spray equipment as a preemergence and/or postemergence application to potatoes. Postemergence applications may be made only on russetted or white-skinned potato varieties that are not early maturing. For optimum control of weeds in potatoes apply SENCOR 4 before weeds are 1-inch tall. Refer to "Special Precautions" for potatoes for additional information.

weeds in potatoes. Apply as a broadcast spray after planting and before crop emergence or after drag-off if this operation is part of the normal cultural practice. Postemergence applications should be applied after crop emergence.

**Ground Application:** SENCOR 4 is recommended for use with ground spray equipment, except air blast sprayers, as a preemergence and/or postemergence application for control of certain grass and broadleaf

**Aerial Application:** SENCOR 4 is recommended for use in aerial spray equipment as a preemergence and/or postemergence application for control of certain grass and broadleaf weeds in potatoes. Apply as a broadcast spray after planting and before crop emergence or after drag-off if this operation is part of the normal cultural practice. Postemergence applications should be applied after crop emergence.

## POTATOES (Continued)

### PREEMERGENCE

**Weeds Controlled:** SENCOR 4, applied preemergence to potatoes according to directions, will effectively control:

#### Broadleaves:

Carpetweed  
(*Mollugo verticillata*)  
Cocklebur  
(*Xanthium pensylvanicum*)  
Jimsonweed  
(*Datura stramonium*)  
Lambsquarters  
(*Chenopodium album*)  
Pigweeds  
(*Amaranthus* spp.)  
Ragweed, Common  
(*Ambrosia artemisiifolia*)  
Shepherdspurse  
(*Capsella bursa-pastoris*)  
Sicklepod  
(*Cassia obtusifolia*)  
Smartweed, Pennsylvania  
(*Polygonum pensylvanicum*)  
Wild Mustards  
(*Brassica* spp.)

#### Grasses:

Broadleaf Signalgrass  
(*Brachiaria platyphylla*)  
Crabgrass  
(*Digitaria* spp.)  
Foxtails  
(*Setaria* spp.)  
Johnsongrass, Seedling  
(*Sorghum halepense*)  
Panicum, Fall  
(*Panicum dichotomiflorum*)

For Control of Wild Mustard (*Brassica* spp.) in Potatoes (Except California) - Apply at the rate of 1/2 to 1 pt per acre as a preemergence broadcast spray using aerial or ground spray equipment in accordance with directions on this label. Application should be made at or near ground crack and/or before the mustard is one inch tall. For control of mustard larger than 2 inches in diameter or other weeds listed on the label, a minimum of 1 pt per acre must be used. When less than 1 pt per acre is used, a postemergence application in accordance with directions on this label may be required for control of other weeds or later germinating weed species.

**Hard To Control Weeds:** Although SENCOR 4 applied preemergence may not provide commercially acceptable control in every instance, it will suppress growth of the following weeds and reduce their competition with potato plants.

#### Broadleaves:

Common purslane  
(*Portulaca oleracea*)

#### Grasses

Barnyardgrass  
(*Echinochloa crus-galli*)  
  
Nutsedge  
(*Cyperus* spp.)

### POSTEMERGENCE

**Weeds Controlled:** SENCOR 4, applied early postemergence to potatoes according to directions, will effectively control:

#### Broadleaves:

Cocklebur  
(*Xanthium pensylvanicum*)  
Lambsquarters  
(*Chenopodium album*)  
Pigweed, Redroot  
(*Amaranthus retroflexus*)  
Ragweed, Common  
(*Ambrosia artemisiifolia*)  
Russian thistle  
(*Salsola kali*)  
Smartweed, Pennsylvania  
(*Polygonum pensylvanicum*)

#### Grasses

Foxtails  
(*Setaria* spp.)

On medium and fine soils in Idaho, Oregon and Washington, two postemergence applications, each at the rate of 1 pt per acre, will control barnyardgrass (*Echinochloa crus-galli*), kochia (*Kochia scoparia*), sunflower (*Helianthus* spp.), and Jim Hill mustard (*Sisymbrium altissimum*) in addition to weeds listed above.

**Hard To Control Weeds:** Although SENCOR 4 applied early postemergence may not provide commercially acceptable control in every instance, it will suppress growth of the following weeds and reduce their competition with potato plants.

#### Broadleaves:

Kochia  
(*Kochia scoparia*)  
Sunflower  
(*Helianthus* spp.)

#### Grasses:

Barnyardgrass  
(*Echinochloa crus-galli*)

**RECOMMENDED BROADCAST APPLICATIONS**

| CROP  | SENCOR 4 Pt/Acre | REMARKS  |
|---|------------------|--|
| Potatoes  | 1 to 2           | <b>PREEMERGENCE:</b> Apply specified dosage per acre as a broadcast spray to the soil surface after planting and before crop emergence or after drag-off if this operation is part of normal cultural practice.* Distribute the chemical evenly over the area to be treated. Do not incorporate into soil. Use the lower rate on sandy soils.  |
| Potatoes (russetted or white-skinned varieties that are not early maturing) | 1/2 to 1         | <b>POSTEMERGENCE:</b> Apply specified dosage per acre as a broadcast spray over the tops of potato plants.* Use rates of 1/2 to 1 pt for control of redroot pigweed and lambsquarters only. Apply the 1 pt rate for control of other weeds listed on this label. Do not apply within 60 days of harvest.   |
|   |                  | <b>SPLIT APPLICATIONS:</b> This product may be applied once preemergence and once postemergence as directed above.* Do not apply postemergence within 60 days of harvest.  |
|   |                  | <b>IDAHO, OREGON AND WASHINGTON ONLY:</b> Two postemergence applications can be made as broadcast sprays over the tops of potato plants if SENCOR 4 is not applied preemergence. Use 1/2 to 1 pt/acre for control of redroot pigweed and lambsquarters only. On coarse (sandy) soils with low organic matter do not exceed 3/4 pt/acre per application. On medium and heavy soils only, use 1 pt/acre for control of other weeds listed on this label. Make the first application early in the season while weeds are still small. Allow at least 14 days before the second application. For optimum control apply before weeds are 1 inch tall. Do not apply after June 30 if treated land is to be planted to crops other than potatoes. Do not apply within 60 days of harvest. |

\*Refer to Special Precautions - Potatoes (following).

POTATOES (Continued)

SPRINKLER IRRIGATION APPLICATION TO POTATOES:

SENCOR 4 may be applied early postemergence to potatoes through center pivot, permanent solid set, or self-propelled lateral move irrigation systems as directed on this label. Refer to "Chemigation" section of this label for directions.

| RECOMMENDED BROADCAST APPLICATIONS  |                  |   |
|---|------------------|---|
| CROP  | SENCOR 4 Pt/Acre | REMARKS   |
| Potatoes (russetted or white-skinned varieties that are not early maturing) | 1/2 to 1         | <b>POSTEMERGENCE IN SPRINKLER IRRIGATION:</b> Apply specified dosage in 1/4 to 3/4 inch of water per acre as a continuous injection in center pivot and self-propelled wheel move systems or in the last 15 to 30 minutes of set in permanent solid set sprinkler systems. On sandy soil apply in 1/4 to 1/2 inch of water. Use rates of 1/2 to 1 pt for control of redroot pigweed and lambsquarters only. Apply the 1 pt rate for control of other weeds listed on the label. Do not apply within 60 days of harvest. |

Do not apply when wind speed favors drift, when system connections leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled or drained.

**SENCOR plus Dual Tank Mix Application (Except California):** SENCOR 4 may be applied in a tank mix combination with Dual 8 E as a preemergence broadcast application to potatoes. Apply SENCOR 4 at 3/4 to 2 pt and Dual 8 E at 1 1/2 to 3 pt per acre according to the respective labels for use of each product alone on potatoes. Refer to appropriate sections of this label and the Dual label for precautionary statements, restrictions, application information and weeds controlled.

**SENCOR plus Prowl Tank Mix Application (Except California):** SENCOR 4 may be applied in a tank mix combination with Prowl as a preemergence broadcast application to potatoes. Apply SENCOR 4 at 1 to 2 pt and Prowl at 1 to 3 pt per acre according to the respective labels for use of each product alone on potatoes. Refer to the appropriate sections of this label and the Prowl label for precautionary statements, restrictions, application information and weeds controlled.

**SPECIAL PRECAUTIONS (Potatoes) Do Not Use SENCOR 4 on Potatoes in Kern County, California:**

Do not apply more than 2 pt total SENCOR 4 per acre in a single crop season regardless of the method of application. Do not apply within 24 hours of application of other pesticides. Do not apply postemergence within 3 days after periods of cool, wet or cloudy weather or crop injury may occur. Postemergence applications may cause some chlorosis or minor necrosis.

In addition to early maturing smooth-skinned white, or red-skinned varieties of potatoes, postemergence applications of SENCOR 4 are not recommended on Atlantic, Shepody, Chipbelle, Bellchip, and Centennial varieties. Preemergence applications to these varieties may cause crop injury, especially under adverse weather conditions and when higher SENCOR 4 rates are used.

Do not apply to sweet potatoes or yams.

Do not plant sensitive crops such as onions, lettuce, cole crops and cucurbits during the next growing season following applications of SENCOR 4 or injury may occur.



**ALFALFA AND SAINFOIN**

SENCOR herbicide is recommended for use in alfalfa and sainfoin in the following areas:

1. Alfalfa and sainfoin (Including mixed stands with grasses) (all areas except California).
2. Alfalfa and sainfoin (Including mixed stands with grasses) (California only).
3. Alfalfa - Tank Mix Combination with Gramoxone (Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming, and the following California counties: Del Norte, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, and Siskiyou).
4. Alfalfa - Post Dormant Application of SENCOR Impregnated on Dry Fertilizer Only (Connecticut, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Nebraska, New Mexico, New York, Ohio, Oklahoma, Pennsylvania, South Dakota, Tennessee, Texas and Wisconsin).

SENCOR 4 is recommended for use in aerial or ground spray equipment as a broadcast surface application to established crops of alfalfa and sainfoin for the control of certain grass and broadleaf weeds.

**APPLICATION:** Refer to "General Information" in the front of this label for detailed information on the application of SENCOR. For information on applying SENCOR 4 in fluid or on dry fertilizer refer to the "Application Of SENCOR 4 In Fluid Fertilizers" or "Commercial Impregnation And Application Of SENCOR 4 On Dry Bulk Fertilizer" under the "General Information" section of this label.

**SPECIAL PRECAUTIONS:** Use SENCOR 4 only on established alfalfa and sainfoin. Do not apply SENCOR 4 after growth begins in the spring or before growth ceases in the fall, except as specified on this label.

Do not graze or harvest within 28 days after application.

For best weed control, apply SENCOR 4 when weeds are less than 2 inches tall or before weed foliage is 2 inches in diameter.

Reduced weed control may occur when extended dry conditions follow application of SENCOR 4.

Crop injury may occur when:

1. Crop is under stress conditions such as diseases, insect infestations, poorly drained soils, drought or winter injury at time of application;
2. Crop is treated within 12 months after seeding;
3. There is excessive irrigation or rainfall immediately after application. Do not apply more than 1/2 inch of water in the first irrigation after SENCOR 4 is applied.

| ALFALFA and SAINFOIN<br>(All Areas Except California)<br>RECOMMENDED BROADCAST APPLICATIONS |                  |   |
|---|------------------|---|
| CROP  | SENCOR 4 Pt/Acre | REMARKS   |
| Alfalfa and Sainfoin (Except California)  | 1/2 to 2         | Select the proper dosage according to weeds known to be and present in field to be treated. On loamy sand soils in Oregon and Washington, do not apply more than 1 pt of SENCOR 4 per acre. |

**FOR USE ON MIXED STANDS OF ALFALFA AND GRASSES:**

Rates of 1 to 1 1/2 pt of SENCOR 4 per acre will provide partial reduction of forage grass stands. These rates may be used to reduce forage grass stands to prevent crowding out of alfalfa. Higher rates will severely reduce forage grass stands.

SENCOR 4 should not be used on sand soils. In areas West of the Rocky Mountains, avoid using SENCOR 4 on soils with calcareous surface area, high levels of lime or sodium, or a pH greater than 8.2.

| ALFALFA and SAINFOIN (Continued)<br>(Except California)<br>Weeds Controlled: |   |  |   |   |   |
|--|---|--|---|---|---|
| 1/2 to 3/4 Pt<br>SENCOR 4/Acre   | 3/4 to 1 Pt<br>SENCOR 4/Acre  | 1 to 2 Pt SENCOR 4/Acre  |   | 2 Pt SENCOR 4/Acre  |   |
| Chickweed, Common<br>( <i>Stellaria media</i> )                              | Cheat<br>( <i>Bromus secalinus</i> )<br>Deadnettle, Purple<br>( <i>Lamium purpureum</i> )<br>Downy brome<br>( <i>Bromus tectorum</i> )<br>Japanese brome<br>( <i>Bromus japonicus</i> )<br>Pennygrass<br>( <i>Thlaspi arvense</i> )<br>Rescuegrass<br>( <i>Bromus catharticus</i> )<br>Shepherdspurge<br>( <i>Capsella bursa -<br/>pastoris</i> ) | <b>Broadleaves</b><br>Fleabane, Rough<br>( <i>Erigeron strigosus</i> )<br>Fixweed<br>( <i>Descurainia sophia</i> )<br>Henbit<br>( <i>Lamium<br/>amplexicaule</i> )<br>Kochia<br>( <i>Kochia scoparia</i> )<br>Lambsquarters, Common<br>( <i>Chenopodium album</i> )<br>Marestail (Horseweed)<br>( <i>Hippuris vulgaris</i> )<br>Meadow Salsify<br>( <i>Tragopogon pratensis</i> )<br>Mustard, Blue<br>( <i>Chorispora tenella</i> )<br>Mustard, Jim Hill<br>(tumble)<br>( <i>Sisymbrium altissimum</i> )<br>Mustard, Tansy<br>( <i>Descurainia pinnata</i> )<br>Pepperweed<br>( <i>Lepidium virginicum</i> ) | <b>Broadleaves<br/>(Continued)</b><br>Pigweed, Redroot<br>( <i>Amaranthus<br/>retroflexus</i> )<br>Prickly Lettuce<br>( <i>Lactuca scariola</i> )<br>White Cockle<br>( <i>Melandrium album</i> )<br>Wild Buckwheat<br>( <i>Polygonum<br/>convolvulus</i> )<br>Yellow Rocket<br>( <i>Barbarea vulgaris</i> )<br><br><b>Grasses</b><br>Foxtail, Green<br>( <i>Setaria viridis</i> )<br>Little Barley<br>( <i>Hordeum pusillum</i> )<br>Smooth Brome<br>( <i>Bromus inermis</i> )<br>Wild Oats<br>( <i>Avena fatua</i> ) | <b>Broadleaves</b><br>Chickweed, Mouseear<br>( <i>Cerastium vulgatum</i> )<br>Dandelion<br>( <i>Taraxacum officinale</i> )<br>Ragweed, Common<br>( <i>Ambrosia<br/>artemisiifolia</i> ) | <b>Grasses</b><br>Barnyardgrass<br>( <i>Echinochloa<br/>crus-galli</i> )<br>Bluegrass<br>( <i>Poa annua</i> )<br>Foxtail Barley<br>( <i>Hordeum<br/>jubatum</i> ) |

**Weeds Partially Controlled:** At the rate of 2 pt/acre SENCOR 4 may be used to reduce the competition from curly dock (*Rumex crispus*).

At 1 to 2 pt/acre, SENCOR 4 may be used to reduce the competition of German Moss or knawel (*Scleanthus annuus*).

**ALFALFA AND SAINFOIN (California Only)  
(Including Mixed Stands With Grasses)**

SENCOR 4 is recommended for use in aerial or ground spray equipment as a broadcast surface application to dormant established crops of alfalfa and sainfoin.

**APPLICATION:** SENCOR 4 is recommended for use in aerial or ground spray equipment as a broadcast surface application to dormant established crops of alfalfa and sainfoin for control of certain grass and broadleaf weeds. Do not apply SENCOR 4 after growth begins in the spring or before growth ceases in the fall. Do not apply to either alfalfa or sainfoin during the first growing season after seeding.

For information on applying SENCOR 4 in fluid fertilizer solutions to alfalfa, refer to the appropriate section of this label.

For information on commercial impregnation and application of SENCOR DF on dry bulk fertilizer, refer to the appropriate section of this label.

| Weeds Controlled:  |   |   |  |   |
|--|---|---|--|---|
| 3/4 to 1 Pt SENCOR 4/acre                                | 1 to 2 Pt SENCOR 4/Acre   |   | 2 Pt SENCOR 4/Acre   |   |
| Cheatgrass<br>(downy brome)<br><i>(Bromus secalinus)</i> | <b>Broadleaves</b><br>Chickweed, Common<br><i>(Stellaria media)</i><br>Flixweed<br><i>(Descurainia saphia)</i><br>Henbit<br><i>(Lamium amplexicaule)</i><br>Kochia<br><i>(Kochia scoparia)</i><br>Meadow Salsify<br><i>(Tragopogon pratensis)</i><br>Mustard, Blue<br><i>(Chlorispora tenella)</i><br>Mustard, Tansy<br><i>(Descurainia pinnata)</i><br>Pepperweed, Virginia<br><i>(Lepidium virginicum)</i><br>Shepherdspurse<br><i>(Capsella bursa-pastoris)</i><br>White Cockle<br><i>(Aristidastrum album)</i><br>Wild Buckwheat<br><i>(Polygonum convolvulus)</i><br>Yellow Rocket<br><i>(Barbarea vulgaris)</i> | <b>Grasses</b><br>Smooth Brome<br><i>(Stellaria media)</i><br>Wild Oats<br><i>(Avena fatua)</i> | <b>Broadleaves</b><br>Dandelion<br><i>(Taraxacum officinale)</i> | <b>Grasses</b><br>Barnyardgrass<br><i>(Echinochloa crus-galli)</i><br>Bluegrass<br><i>(Poa annua)</i><br>Foxtail Barley<br><i>(Hordeum jubatum)</i> |

| RECOMMENDED BROADCAST APPLICATIONS        |                  |  |
|---|------------------|--|
| CROP                                      | SENCOR 4 Pt/Acre | REMARKS  |
| Alfalfa and Sainfoin<br>(California Only) | 3/4 to 2         | Select the proper dosage according to weeds known to be present in the field to be treated. Apply specified dosage in 20 to 40 gallons of water per acre with ground spray equipment or 3 to 10 gallons of water per acre with aerial spray equipment fitted with nozzles suitable for broadcast applications of herbicides. Treat only dormant established crops of alfalfa and sainfoin. Injury may occur to alfalfa if SENCOR 4 is applied earlier than 12 months after seeding. Do not apply after Spring growth begins or before growth ceases in the Fall. Do not graze or harvest within 28 days after application.<br><br>At the 2 pt/acre rate, SENCOR 4 may be used for suppression of curly dock. |

**FOR USE ON MIXED STANDS OF ALFALFA AND GRASSES:** Rates of 1 to 1-1/2 pt of SENCOR 4 per acre will provide partial reduction of forage grass stands. These rates may be used to reduce forage grass stands to prevent crowding out of alfalfa. Higher rates will severely reduce forage grass stands.

Do not apply with aerial spray equipment when wind speed is greater than 10 mph. Do not apply when weather conditions favor spray drift and/or when sensitive cool season crops, such as cole crops, onions, peas, or strawberries, are present in adjacent fields. Applications should not be made when weather conditions favor spray drift, especially in areas where wheat is growing on coarse textured soils in adjacent fields, or injury may occur.

**ALFALFA**  
**SENCOR plus Gramoxone Tank Mix**

Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming and the following California counties: Del Norte, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, and Siskiyou.

**APPLICATION:** SENCOR 4 plus Gramoxone Extra herbicide tank mix application is recommended for use, during the dormant season, in aerial or ground spray equipment as a broadcast surface application to established alfalfa for the control of certain grass and broadleaf weeds. Do not apply SENCOR/Gramoxone tank mix to growth that is more than 2 inches tall. Apply once per season. Do not apply following cuttings during growing season. Use a minimum of 10 gallons of water per acre with aerial spray equipment and a minimum of 20 gallons of water per acre with ground spray equipment. Add a non-ionic spreader at label rates to the spray solution.

**Weeds Controlled:** SENCOR 4 plus Gramoxone Extra (1-1/5 to 1-3/5 pints/acre) tank mix application will control established weeds. Gramoxone controls weeds by contact activity.

1/2 to 3/4 pt of SENCOR 4 per acre  
Common Chickweed

3/4 to 1 1/2 pt of SENCOR 4 per acre  
Bluegrass  
Downy brome  
Henbit  
Japanese brome  
Cheat  
Shepherdspurse  
Rescuegrass  
Field pennycress

Use SENCOR 4 at 1 to 1 1/2 pt/acre for control of the following weeds:

|              |                |                  |                 |                |
|--------------|----------------|------------------|-----------------|----------------|
| Ryegrass     | Blue mustard   | Pepperweed       | Wild buckwheat  | Common         |
| Sow thistle  | Tansy mustard  | Jim Hill mustard | Prickly lettuce | lambquarters   |
| Groundsel    | Flixweed       | Green foxtail    | Little barley   | Marestail      |
| Smooth brome | Kochia         | Yellow rocket    | Redroot pigweed | (Horseweed)    |
| Wild oats    | Meadow salsify | White cockle     |                 | Rough fleabane |

| RECOMMENDED APPLICATIONS  |  |
|---|--|
| DOSAGE/ACRE   | REMARKS  |
| SENCOR 4<br>1/2 to 1 1/2 Pt<br><br>Plus<br><br>Gramoxone Extra<br>1 1/5 to 1 3/5 Pt | Apply specified dosages of SENCOR and Gramoxone in at least 10 gallons of water per acre with aerial equipment or at least 20 gallons of water per acre with ground equipment. Do not apply this tank mix to alfalfa growth if more than 2 inches tall. For best weed control, apply when broadleaf weeds and grasses are 1-6 inches tall and are actively growing. Care should be taken to avoid overlaps. Do not apply more than 1 pt of SENCOR 4 per acre on loamy sand soils. Reduced weed control may occur when extended dry conditions follow application of SENCOR. Crop injury may occur if alfalfa is under stress conditions such as diseases, insect infestations, drought or winter injury or if SENCOR is applied to alfalfa earlier than 12 months after seeding. |

**FOR USE ON MIXED STANDS OF ALFALFA AND GRASSES:** Rates of 1 to 1 1/2 pt of SENCOR 4 per acre will provide partial reduction of forage grass stands. These rates may be used to reduce forage grass stands to prevent crowding out of alfalfa.

Do not graze or harvest within 42 days after application.

In areas west of the Rockies, avoid the use of SENCOR on soils with calcareous surface, soils with high levels of lime or sodium, and with a pH greater than 8.2.

Do not apply when weather conditions favor spray drift. Aerial application should not be made when wind speed is greater than 10 mph.

Do not use on sand soil.

Refer to the Gramoxone Extra label for additional directions, weed species controlled and precautions.

## Post Dormant Application of SENCOR Impregnated on Dry Fertilizer Only

SENCOR 4 may be applied after dormancy has broken, but prior to three inches of new alfalfa shoot growth, only when impregnated on dry fertilizer in Connecticut, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Nebraska, New Mexico, New York, Ohio, Oklahoma, Pennsylvania, South Dakota, Tennessee, Texas and Wisconsin.

Apply at rates of 1 1/2 to 2 pt per acre as directed on this label for application during dormancy. Apply only when alfalfa foliage is dry or crop injury may occur. When using this application method, do not harvest or graze treated alfalfa for 60 days after application.

### ASPARAGUS (Established)

SENCOR 4 is recommended for use in aerial or ground spray equipment or sprinkler irrigation (center pivot, lateral move, or solid set) systems as a single preemergence broadcast application or as a split application consisting of a preemergence broadcast application followed by a post harvest broadcast application.

Refer to the "General Information" section of this label for directions.

**Weeds Controlled:** SENCOR 4, applied to established asparagus according to directions, will effectively control:

**Broadleaves:**

- Chickweed, Common (*Stellaria media*)
- Jimsonweed (*Datura stramonium*)
- Lambsquarters (*Chenopodium album*)
- Pigweed, Redroot (*Amaranthus retroflexus*)
- Ragweed, Common (*Ambrosia artemisiifolia*)
- Smartweed, Pennsylvania (*Polygonum pennsylvanicum*)
- Sorrel, Red (*Rumex acetosella*)
- Velvetleaf (*Abutilon theophrasti*)

**Grasses:**

- Crabgrass (*Digitaria spp.*)
- Foxtails (*Setaria spp.*)
- Sandbur, Field (*Cenchrus pauciflorus*)

| RECOMMENDED BROADCAST APPLICATIONS   |  |  |
|--|--|--|
| CROP   | SENCOR 4 Pt/Acre   | REMARKS  |
| Asparagus  | 2 to 4   | <p><b>PREEMERGENCE APPLICATION ONLY</b></p> <p>Make a single surface application in early Spring before asparagus spears or ferns emerge. If the field is to be disked, apply SENCOR 4 after disking but before the crop emerges. Use the lower rate for control of the broadleaf weeds listed above. Use the higher rate in fields with a history of severe infestations of grasses and for maximum residual control. Do not apply within 14 days of harvest.</p>   |
|  | 1 to 2<br>preemergence<br>plus<br>2 to 3<br>post harvest | <p><b>SPLIT APPLICATION PREEMERGENCE AND POST HARVEST</b></p> <p><b>Preemergence Application:</b> Apply before asparagus spears or ferns emerge. If the field is to be disked, apply after disking but prior to crop emergence. Do not apply within 14 days of harvest.</p> <p><b>Post Harvest Application:</b> Apply after last harvest of the season but prior to emergence.</p> <p>The lower combination rates may be used for control of common ragweed, lambsquarters, redroot pigweed, and red sorrel. Use the higher combination rates for other weeds listed or in fields with severe grass infestations or for maximum post harvest control of emerged weeds.</p> |
| <p><b>IMPORTANT:</b> The total amount of SENCOR 4 applied in one crop season may not exceed 4 pt per acre.</p> |  |  |

**SPECIAL PRECAUTIONS (Asparagus):** Do not use on newly seeded asparagus nor on young plants during the first growing season after setting crowns.

**DO NOT APPLY POST HARVEST APPLICATIONS UNTIL AFTER THE LAST HARVEST OF SPEARS.**

**CARROTS**

**Special Conditions of Sale Provision for Use on Carrots:** The following directions for use were developed under the direction of IR-4 (government minor crops use program). As such the testing was done independently from the testing program of Miles, Inc. Buyer is advised that Miles makes no assurances regarding satisfaction with the product and all risks of crop injury or product performance are assumed by the Buyer.

Apply SENCOR herbicide with ground equipment as specified below under "Recommended Applications". For effective control of broadleaf weeds with postemergence applications, apply SENCOR before weeds are 1 inch in height or diameter. Thorough spray coverage is essential for adequate weed control.

Do not use air blast or other high pressure spray equipment to make postemergence applications of SENCOR. Refer to the appropriate section of this label for additional information regarding spray equipment, dilution rates, mixing, sprayer cleanup, restrictions, container disposal and cautions.

Refer to "Mixing" under the "General Information" section on the front of this label.

For specific application information see "General Information" and "Application" sections at the front of this label.

**WEEDS CONTROLLED:** SENCOR 4 applied to carrots according to directions will effectively control:

- |   |   |
|---|---|
| Carpentweed<br>( <i>Mullugo verticillata</i> )        | Pigweed, Redroot<br>( <i>Amaranthus retroflexus</i> ) |
| Galinsoga<br>( <i>Galinsoga parviflora</i> )          | Pigweed, Smooth<br>( <i>Amaranthus hybridus</i> )     |
| Horseweed<br>( <i>Conyza canadensis</i> )             | Prickly Lettuce<br>( <i>Lactuca serriola</i> )        |
| Lambsquarters, Common<br>( <i>Chenopodium album</i> ) | Shepherdspurse<br>( <i>Capsella bursa-pastoris</i> )  |
| Mustard, Wild<br>( <i>Sinapis arvensis</i> )          | Pineappleweed<br>( <i>Matricaria matricarioides</i> ) |

| RECOMMENDED APPLICATIONS   |                  |  |
|--|------------------|--|
| CROP   | SENCOR 4 Pt/Acre | REMARKS  |
| Carrots  | 1/2              | Apply specified dosage per acre as a broadcast spray over the tops of carrot plants. Application should be made after carrots have formed 5-6 true leaves but before weeds are 1 inch in height or diameter. If needed, a second application may be made after an interval of at least 3 weeks. Applications may be made up to 60 days of harvest. |
| <b>IMPORTANT:</b> The total amount of SENCOR 4 applied in one crop season must not exceed 1 pt per acre. |                  |  |

**SPECIAL PRECAUTIONS:** Do not apply to carrots grown for seed.

Do not apply within 3 days after periods of cool, wet or cloudy weather or crop injury will occur.

Do not apply SENCOR within 3 days of any other chemical unless specified on this label.

Do not apply on very hot days or excessive crop injury will result.

Do not apply until carrots have at least 5-6 true leaves. Earlier applications will result in excessive crop damage.

Crop injury or delayed maturity may result from applications of SENCOR if carrots are growing under stress conditions such as periods of drought or cool, wet and cloudy weather preceding application.

Following an application of SENCOR 4, chlorosis (yellowing) and burning of the leaf tissue may occur.

For newly introduced varieties of carrots with unknown tolerance to SENCOR, treat only a small area to determine if SENCOR can be used without injury to the crop.

## FIELD CORN

(IOWA KANSAS, MISSOURI, NEBRASKA, AND SOUTH DAKOTA ONLY)

SENCOR 4 is recommended for the added effect on the control of certain broadleaf weeds in corn when applied preemergence in a tank mix combination with labeled rates of Lasso plus atrazine, Lasso plus Bladex®, Dual plus atrazine, or Dual plus Bladex. Refer to the appropriate product labels for weeds controlled by these combinations.

SENCOR 4 in each of the tank mix combinations will control the following weeds:

Lambsquarters

(*Chenopodium album*)

Pigweed, Redroot (carelessweed)

(*Amaranthus retroflexus*)

Smartweed, Pennsylvania

(*Polygonum pensylvanicum*)

Velvetleaf

(*Abutilon theophrasti*)

**MIXING:** Select proper dosages based on soil type as shown below. Fill the spray tank 1/4 to 1/3 full with clean water and add SENCOR 4 to the spray tank first. Mix thoroughly and then add atrazine or Bladex to the spray tank. Add water to fill spray tank to desired level. Mix thoroughly and then add Lasso or Dual to the spray tank. Maintain sufficient agitation during mixing and spraying operations to insure a uniform spray mixture.

**APPLICATION:** For specific application information see the "General Information" section in the front of this label.

| RECOMMENDED BROADCAST APPLICATIONS   |          |                  |    |                  |   |    |   |
|--|----------|------------------|----|------------------|---|----|---|
| RATES PER ACRE:  |          |                  |    |                  |   |    |   |
| SOIL TEXTURE   | SENCOR 4 | LASSO 4EC        | or | DUAL 8EC         | ATRAZINE 4L<br>or 80 WP                                     | or | BLADEX 4L<br>or 80 WP                                       |
| <b>MEDIUM</b><br>(Loam, silt loam, silt,<br>sandy clay, sandy clay loam)     | 1/2 pt   | 1.5 to 2.0<br>qt | or | 1.5 to 2.0<br>pt | 0.75 to 1.5<br>qt of 4L<br>or<br>0.95 to 1.9 lb<br>of 80 WP | or | 1.25 to 2.5<br>qt of 4L<br>or<br>1.5 to 3.1 lb<br>of 80 WP  |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>1</sup><br>clay, clay loam) | 1/2 pt   | 2.0 to 2.5<br>qt |    | 2.0 to 2.5<br>pt | 0.75 to 1.5<br>qt of 4L<br>or<br>0.95 to 1.9<br>lb of 80 WP |    | 1.5 to 3.0<br>qt of 4L<br>or<br>1.75 to 3.75<br>lb of 80 WP |

<sup>1</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

Follow the Lasso, Dual, Bladex, or atrazine labels for use rates on specific soil textures and organic matter content. Not recommended for use on muck soils as reduced weed control may result.

**SPECIAL PRECAUTIONS (Field Corn):** Not for use on coarse textured soils or soils containing less than 2% organic matter content.

Do not use on soils having a calcareous surface or high in lime or sodium and/or a pH of 7.0 or higher.

Corn seed should be planted 1-1/2 inches deep.

Use in hybrid seed corn production fields only if both parents are known to be tolerant to SENCOR 4 and other herbicides used.

**GARBANZO BEANS (Chickpeas)**

Idaho, Oregon and Washington Only

**Special Conditions of Sale for Use on Garbanzo Beans (Chickpeas):** The following directions for use were developed under the direction of IR-4 (government minor crops use program). As such the testing was done independently from the testing program of Miles Inc. Buyer is advised that Miles makes no assurances regarding satisfaction with the product and that all risks of crop injury or product performance are assumed by the Buyer.

**WEEDS SUPPRESSED:\***

|                      |                        |
|----------------------|------------------------|
| Common Chickweed     | Common Lambsquarters ( |
| Dog Fennel (Mayweed) | Shepherdspurse         |
| Field Pennycress     | Wild Mustard           |
| Henbit               | Pigweed                |

\*Suppression is a reduction in weed size and growth compared to a non-treated area in the same field. SENCOR used alone will not control triazine resistant weed species.

SENCOR herbicide is recommended as a preemergence application for the suppression of certain broadleaf weeds in garbanzo beans.

| RECOMMENDED APPLICATIONS |                  |   |
|--------------------------|------------------|---|
| CROP                     | SENCOR 4 Pt/Acre | REMARKS   |
| Garbanzo beans           | 1/2 to 3/4       | Apply specified dosage in a single preemergence application using 10 to 40 gallons of water per acre with ground spray equipment. Apply before or after planting but before crop emergence. Thorough incorporation, either by rainfall or by mechanical means, is essential for weed suppression. Under dry conditions, incorporate SENCOR into the top 1 to 2 inches of soil with spike harrows, or similar shallow incorporation equipment, then cross harrow to insure uniform soil incorporation. Where soil surface is moist at the time of application and rain follows before weed emergence, a broadcast application should provide adequate weed suppression.<br><br>Use the higher rate on fine textured soils (high in clay or organic matter) and fields with a history of high weed populations. |

**SPECIAL PRECAUTIONS:** Crop injury may result if crop is under stress conditions caused by cold weather, poor soil fertility, disease or insect damage.

Crop injury may result if application is followed by heavy rain. Avoid application of more than 1/2 inch of irrigation within one month after application of SENCOR, or crop injury may occur.

Do not use on coarse-textured soils, sandy soils or any soil with less than 1.5% organic matter. Do not use on clay knobs or poorly covered subsoils.

Do not apply preemergence on shallow seedings less than 2 inches deep.

Do not graze or feed treated vines to livestock within 40 days after application.

Maintain continuous spray tank agitation to keep material in suspension. Avoid overlapping of spray swaths and shut off spray booms while turning, slowing or stopping, or crop injury will occur.

**NOTE:** This treatment may cause some chlorosis or minor necrosis. Because garbanzo bean varieties may vary in their susceptibility to SENCOR, determine crop tolerance prior to adoption as a field scale practice to prevent possible injury.



**LENTILS AND DRY FIELD PEAS**  
(Idaho, Montana, Oregon and Washington)

SENCOR herbicide is recommended as a preemergence and postemergence application for the suppression of certain broadleaf weeds in lentils and dry field peas.

**WEEDS SUPPRESSED\***

- Common Chickweed\*\*
- Lambsquarters
- Dog Fennel
- Shepherdspurse\*\*
- Field Pennycress
- Wild Mustard
- Henbit\*\*

\*Suppression is a reduction in weed size and growth compared to a non-treated area in the same field.

\*\*Preemergence application only.

**PREEMERGENCE APPLICATION**

Make a single preemergence application of SENCOR 4 at 1/2 to 3/4 pt per acre per crop year. Apply in 20 or more gallons of water per acre with ground spray equipment or in 5 or more gallons of water per acre with aerial spray equipment. Apply SENCOR 4 before or after planting, BUT BEFORE CROP GERMINATES. Thorough incorporation, either by rainfall or by mechanical means, is essential for weed suppression. Under dry conditions, incorporate SENCOR 4 into the top 1 to 2 inches of soil with spike harrows, or similar shallow incorporation equipment, then cross harrow to insure uniform soil application. Where soil surface is moist at the time of application and rain follows before weed emergence, a broadcast application should provide adequate weed suppression.

Use the higher rate on fine-textured soils (high in clay or organic matter) and in fields with a history of high weed populations.

**POSTEMERGENCE APPLICATION**

Use 1/4 to 3/8 pt of SENCOR 4 per acre on lentils and spring peas. On winter peas, use 3/8 to 1/2 pt of SENCOR 4 per acre. For suppression of dog fennel, use 1/2 pt SENCOR 4 per acre. Apply specified dosage in 20 or more gallons of water per acre with ground spray equipment or in 5 or more gallons of water per acre with aerial spray equipment. Do not exceed 40 psi with ground spray equipment. Apply as a broadcast spray when weeds are small (less than 2 inches in height or diameter) and before crop is 6 inches tall.

One postemergence application may be made per season.

Temporary chlorosis of crop may occur. There is an added risk of crop injury if a postemergence application is made following a previous metribuzin application.

Do not apply over very moist soils or wet crop foliage. Do not apply postemergence applications within 3 days after periods of cool, wet, or cloudy weather or crop injury may occur.

Do not apply within 24 hours of treatment with other pesticides.

**SPECIAL PRECAUTIONS (All Applications):** Crop injury may result if crop is under stress conditions caused by cold weather, low fertility, disease or insect damage.

Crop injury may also result if application is followed by heavy rain.

Do not use on coarse-textured soils, sandy soils or any soil with less than 1.5% organic matter.

Do not apply to "Estin" lentils.

Do not use on clay knobs or poorly covered subsoils.

Do not apply on shallow seedings less than 2" deep (preemergence only).

Do not apply within 50 days of harvest of peas, or within 75 days of harvest of lentils. Do not graze or feed treated vines to livestock within 40 days after application.

Maintain continuous spray tank agitation to keep material in suspension. Avoid overlapping and shut off spray booms while turning, slowing or stopping, or crop injury will occur.

**NOTE:** This treatment may cause some chlorosis or minor necrosis. Because lentil and pea varieties may vary in their susceptibility to SENCOR 4, determining crop tolerance prior to adoption as a field scale practice is suggested to prevent possible injury. For additional precautions, restrictions, limitations, and sprayer clean-up information refer to the appropriate sections of this label.

**LENTILS**  
(North Dakota Only)

SENCOR herbicide is recommended as a preemergence and postemergence application for the suppression of certain broadleaf weeds in lentils.

**WEEDS SUPPRESSED\***

- Common Chickweed\*\*
- Lambsquarters
- Dog Fennel\*\*
- Shepherdspurse\*\*
- Field Pennycress
- Wild Mustard
- Henbit\*\*

\*Suppression is a reduction in weed size and growth compared to a non-treated area in the same field.

\*\*Preemergence application only.

**PREEMERGENCE APPLICATION**

A single preemergence application at 1/2 to 3/4 pt of SENCOR 4 per acre in 20 to 40 gallons of water per acre with ground spray equipment may be made per crop year. Apply SENCOR 4 before or after planting, BUT BEFORE CROP GERMINATES. Thorough incorporation, either by rainfall or by mechanical means, is essential for weed suppression. Under dry conditions, incorporate SENCOR 4 into the top 1 to 2 inches of soil with spike harrows, or similar shallow incorporation equipment, then cross harrow to insure uniform soil incorporation. Where soil surface is moist at the time of application and rain follows before weed emergence, a broadcast application should provide adequate weed suppression.

Use the higher rate on fine-textured soils (high in clay or organic matter) and in fields with a history of high weed populations.

**POSTEMERGENCE APPLICATION**

Apply 1/4 to 3/8 pt of SENCOR 4 in 20 to 40 gallons of water per acre and not over 40 psi with ground spray equipment as a broadcast spray when weeds are small (less than 2 inches in height or diameter) and before crop is 6 inches tall.

One postemergence application may be made per season.

Temporary chlorosis of crop may occur. There is an added risk of crop injury if a postemergence application is following a previous metribuzin application.

Do not apply over very moist soils or wet crop foliage. Do not apply postemergence within 3 days after periods of cool, wet, or cloudy weather or crop injury may occur.

Do not apply within 24 hours of treatment with other pesticides.

**SPECIAL PRECAUTIONS (All Applications)**

Crop injury may result if crop is under stress conditions caused by cold weather, low fertility, disease or insect damage.

Crop injury may also result if application is followed by heavy rain.

Do not use on coarse-textured soils, sandy soils, or any soil with less than 1.5% organic matter.

Do not apply to "Estin" lentils.

Do not use on clay knobs or poorly covered subsoils.

Do not apply on shallow seedings less than 2" deep (preemergence only).

Do not apply within 75 days of harvest. Do not graze feed treated vines to livestock within 40 days after application.

Maintain continuous spray tank agitation to keep material in suspension. Avoid overlapping and shut off spray booms while turning, slowing or stopping, or crop injury will occur.

**NOTE:** This treatment may cause some chlorosis or minor necrosis. Because lentil varieties may vary in their susceptibility to SENCOR 4, determining crop tolerance prior to adoption as a field scale practice is suggested to prevent possible injury.

For additional precautions, restrictions, limitations, and sprayer clean-up information refer to the appropriate sections of this label.

**SUGARCANE (Hawaii Only)**

SENCOR, a selective herbicide, is effective as a preemergence and an early postemergence broadcast application for control of certain grass and broadleaf weeds. When applied as a spot treatment, it also provides excellent control of perennial grasses and broadleaves.

**Ground Application:** SENCOR 4 should be mixed by filling the spray tank half full of clean water. Then add the recommended amount of SENCOR 4 to suit the total tank capacity and the rate of application per acre (preferably 25 to 35 gallons per acre). Complete filling the tank and maintain sufficient agitation during mixing and spraying to insure a uniform spray mixture.

**Aerial Application:** SENCOR 4 is recommended for use in aerial spray equipment as a preemergence or postemergence application to irrigated sugarcane. Aerial spray equipment should be calibrated to apply the proper amount of SENCOR 4 in 7 to 10 gallons of spray mixture per acre.

SENCOR 4 applied preemergence or postemergence to the sugarcane as a broadcast spray or spot treatment will effectively control the following when weeds are less than 3 inches in height.

**Weeds Controlled in Irrigated and Non-irrigated Sugarcane:**

Broadleaves

- Amaranth, Spiny  
(*Amaranthus spinosus*)
- Euphorbia, Wild  
(*Euphorbia* spp.)
- Fireweed  
(*Erechtites hieracifolius*)
- Floras paintbrush  
(*Emilia sonochifolia*)
- Spurge, Garden  
(*Euphorbia hirta*)
- Spurge, Graceful  
(*Euphorbia glomerifera*)

Grasses

- Crabgrass  
(*Digitaria* spp.)
- Guineagrass  
(*Panicum maximum*)
- Plushgrass  
(*Chloris radiata*)
- Ricegrass  
(*Oryzopsis hymenoides*)
- Wiregrass  
(*Eleusine indica*)

**Weeds Controlled in Irrigated Sugarcane Only:**

Broadleaves

- Amaranth, Spleen  
(*Amaranthus dubius*)
- Haole Koa  
(*Leucaena leucocephala*)
- Hialoa  
(*Waltheria americana*)
- Hilahila  
(*Mimosa pudica*)
- Purslane, Common  
(*Portulaca oleracea*)
- Rattlepod  
(*Crotalaria spectabilis*)

Grasses

- Alexandergrass  
(*Brachiaria plantaginea*)
- Bristly foxtail  
(*Setaria verticillata*)

**Weeds Controlled in Non-irrigated Sugarcane Only:**

Broadleaves

- Ageratum  
(*Ageratum conyzoides*)
- Richardia  
(*Richardia brasiliensis*)
- Tarweed  
(*Cuphea carthagenesis*)

**SUGARCANE (Hawaii Only) Continued**

| RECOMMENDED BROADCAST APPLICATIONS   |   |   |
|--|---|---|
| CROP   | SENCOR 4 Pt/Acre                            | REMARKS   |
| Sugarcane<br>(Hawaii Only)   | 4 to 8<br>(1/2 to 1 gal)<br>(non-irrigated) | PREEMERGENCE (Irrigated and non-irrigated sugarcane): Apply specified dosage per acre as a broadcast spray to the soil surface. Applications should be made within two weeks after planting prior to cane emergence or shortly after emergence (spike stage).<br>OR |
|  | 8 to 12<br>(1 to 1 1/2 gal)<br>(irrigated)  | EARLY POSTEMERGENCE (Irrigated and non-irrigated sugarcane): Apply specified dosage per acre as a broadcast spray over the cane. Application may be delayed as long as 4 to 6 weeks after planting provided weeds are less than 3 inches in height.                 |
|  |   | OR  |
|  | 4 to 8<br>(1/2 to gal)                      | POSTEMERGENCE: Apply specified dosage per acre as a broadcast spray to control weeds prior to "close in" time when cane shades out the weed growth.   |
|  | 5 to 10<br>(1 1/8 to 1 1/4 gal)             | SPOT TREATMENT: Apply specified dosage in 30 to 50 gallons of finished spray per acre. Spot treatments may be used to control weeds in missed areas, corners of fields, or areas of hard to control weeds.  |
| NOTE: Do not apply more than 16 pt (2 gal) of SENCOR 4 (8 lb active ingredient)/ acre per crop cycle regardless of the method of application. The last application may be made up to 17 months of harvest. |   |   |

**SPECIAL PRECAUTIONS:** Do not use treated foliage for feed or forage.

**SUGARCANE (Louisiana and Texas Only)**

Preemergence and postemergence applications of SENCOR 4 with aerial or ground spray equipment are recommended for control of the following weeds in sugarcane in Louisiana and Texas:

Broadleaves

- Amaranth, Spiny  
(*Amaranthus spinosus*)
- Bindweed, Field  
(*Convolvulus arvensis*)
- Chickweed  
(*Cerastium vulgatum*)
- Henbit  
(*Lamium amplexicaule*)
- Lambsquarters  
(*Chenopodium album*)
- London rocket  
(*Sisymbrium irio*)
- Marestail  
(*Conyza canadensis*)
- Mustard, Wild  
(*Brassica kaber*)
- Pigweeds  
(*Amaranthus* spp.)
- Purslane  
(*Portulaca oleracea*)
- Sowthistle  
(*Sonchus* spp.)

Grasses

- Broadleaf Signalgrass  
(*Brachiaria platyphylla*)
- Crabgrass  
(*Digitaria* spp.)
- Foxtails  
(*Setaria* spp.)
- Johnsongrass, Seedling  
(*Sorghum halepense*)
- Oats, Winter  
(*Avena* spp.)

**SUGARCANE (Louisiana and Texas Only) Continued**

| RECOMMENDED APPLICATIONS                |                  |  |
|---|------------------|--|
| CROP                                    | SENCOR 4 Pt/Acre | REMARKS  |
| Sugarcane<br>(Louisiana and Texas only) | 3 to 6           | <b>BROADCAST:</b> Apply specified dosage per acre using 20 to 30 gallons of water with ground equipment or 5 gallons of water with aircraft spray equipment. Apply as a broadcast spray during the Fall after planting or to the stubble after harvest. Make a second application early in the Spring. |
|   | 1 1/2 to 3       | <b>BAND:</b> Apply specified dosage in 10 to 20 gallons of water per acre in a 30 to 36 inch band over the row during the Fall after planting or to the stubble after harvest. Make a second application early in the Spring.  |

**SPECIAL PRECAUTIONS (Louisiana and Texas only):**  
Do not use treated foliage for feed or forage.

Use the higher rate on heavy clay soil and soil with a high percentage of organic matter. If necessary, a third application may be made in late Spring at layby. Do not apply within 60 days of harvest.

**SUGARCANE (Florida Only)**

Postemergence over-the-top or directed spray applications of SENCOR 4 are recommended for the control of the following weeds in sugarcane in Florida.

Broadleaves

- Amaranth, Spiny (seedling)  
(*Amaranthus spinosus*)
- Butterweed  
(Cressleaf groundsel)  
(*Senecio glabellus*)
- Cudweed  
(*Gnaphalium* spp.)
- Purslane  
(*Portulaca oleracea*)

Grasses

- \*Crabgrass, large  
(*Digitaria sanguinalis*)
- Foxtail, bristlegass  
(*Setaria magna*)
- Goosegrass  
(*Eleusine indica*)
- Panicum, broadleaf  
(*Panicum adspersum*)
- Signalgrass, Broadleaf  
(*Brachiaria platyphylla*)

\*Best control is achieved when applications are made when this weed is less than 4" in diameter.

| RECOMMENDED BROADCAST APPLICATIONS |                  |   |
|------------------------------------|------------------|---|
| CROP                               | SENCOR 4 Pt/Acre | REMARKS   |
| Sugarcane<br>(Florida Only)        | 2 to 4           | <b>GROUND APPLICATION:</b> SENCOR 4 may be used in one or two applications with a minimum of 14 days between each application. Apply when weeds are less than 6 inches tall in 10 to 40 gallons of spray mixture per acre.<br><br><b>POSTEMERGENCE BROADCAST OR BAND:</b> Apply over the top of stubble or plant cane while sugarcane is less than 14 inches tall.<br><br><b>POSTEMERGENCE DIRECTED SPRAY:</b> Apply to sugarcane that is a minimum of 14 inches tall and before row closing. |
|                                    | 2 to 3           | <b>AERIAL APPLICATION:</b> Apply when weeds are less than 4 inches tall in 5 to 10 gallons of spray mixture per acre. Apply to stubble or plant cane while the sugarcane is less than 14 inches tall.   |

**SENCOR PLUS Atrazine TANK MIX:** SENCOR 4 may be used with atrazine as a preemergence or postemergence (before row closing) application to sugarcane. Rates for SENCOR 4 are 1 1/2 to 4 pt/acre and atrazine 80% WP (4L) are 2 1/2 to 5 lb/acre (2 to 4 qt/acre). For additional information on precautions, instructions, limitations, application, and weeds controlled, refer to this label and the atrazine label.

Do not use on sand soils.

Spray contact with sugarcane foliage may result in minor leaf margin chlorosis and/or necrosis.

Do not apply within 60 days of harvest. Do not use treated crop for feed or forage.

Avoid spray overlaps or variations in application speed that may result in insufficient or excessive rates of application.

**SPECIAL PRECAUTIONS (Florida only):** Do not use more than 4 pt per acre in a single growing season.

**TOMATOES**

Apply SENCOR herbicide with ground equipment to seeded and transplanted tomatoes as specified below under "Recommended Applications".

Do not use air blast or other high pressure spray equipment to make postemergence applications of SENCOR 4. Refer to the appropriate section of this label for additional information regarding spray equipment, dilution rates, mixing, sprayer cleanup, restrictions, container disposal and cautions.

For effective control of grasses and broadleaf weeds with postemergence applications, apply SENCOR 4 before weeds are 1-inch tall. Thorough spray coverage on weed foliage is essential for adequate control with postemergence applications.

For specific application information see the "General Information" section in the front of this label.

**WEEDS CONTROLLED:**

**PREPLANT INCORPORATED APPLICATIONS - TRANSPLANT TOMATOES ONLY**

Broadleaves

- Galinsoga  
(*Galinsoga* spp.)
- Lambsquarters  
(*Chenopodium album*)
- \* Pigweed, Redroot  
(*Amaranthus retroflexus*)
- \* Purslane, Common  
(*Portulaca oleracea*)

Grasses

- \* Goosegrass  
(*Eleusine indica*)

Preplant incorporated applications applied as directed will suppress foxtails, panicums and barnyardgrass.

**SENCOR/Treflan Tank Mix:** This tank mix combining applied preplant incorporated as directed on this label control the weeds listed above plus those weeds listed on the Treflan label.

**POSTEMERGENCE APPLICATIONS--ESTABLISHED TOMATOES**

For effective control of weeds with postemergence applications, apply SENCOR 4 before weeds are 1-inch tall.

**Broadcast Sprays - 1/2 to 3/4 Pt SENCOR 4/Acre**

**Directed Sprays 1 to 2 Pt SENCOR 4/Acre**

Broadleaves

- Carpetweed  
(*Mollugo verticillata*)
- Fumitory  
(*Fumaria officinalis*)
- Galinsoga  
(*Galinsoga* spp)
- \* Jimsonweed  
(*Datura stramonium*)
- \* Ladysthumb  
(*Polygonum persicaria*)
- Lambsquarters  
(*Chenopodium album*)

- Mustard, Wild  
(*Brassica kaber*)
- Pigweeds  
(*Amaranthus* spp.)
- Purslane  
(*Portulaca oleracea*)
- \* Ragweed, Common  
(*Ambrosia artemisiifolia*)
- \* Smartweed, Pennsylvania  
(*Polygonum pennsylvanicum*)
- Toadflax  
(*Linaria* spp.)
- \* Velvetleaf  
(*Abutilon theophrasti*)

Grasses

- \* Foxtail, Yellow  
(*Setaria glauca*)
- Goosegrass  
(*Eleusine indica*)

**Plus Weeds Listed Under Broadcast Sprays**

\*For optimum control of these weeds, use the highest rate recommended on the label for the type of application to be made. Repeat postemergence applications may be needed for best control.

**TOMATOES (Continued)**

Postemergence applications as directed on this label will suppress barnyardgrass and crabgrass when these weeds are less than 1-inch tall.

| RECOMMENDED BROADCAST APPLICATIONS |                   |  |
|------------------------------------|-------------------|--|
| CROP                               | SENCOR 4 *Pt/Acre | REMARKS  |
| Tomatoes                           | 1/2 to 1          | <b>PREPLANT INCORPORATED--TRANSPLANT TOMATOES ONLY (EXCEPT CALIFORNIA):</b> Apply specified dosage in 10 to 40 gallons of water per acre as a broadcast spray to the soil surface immediately before transplanting. Incorporate to a depth of 2 to 4 inches with equipment capable of uniformly mixing the chemical into the soil. This application may be made alone or in a tank mix combination with Treflan E.C. Refer to the Treflan label for specific rate of application and for additional precautions and restrictions for tomatoes.   |
|                                    | 1/2 to 3/4        | <b>POSTEMERGENCE BROADCAST SPRAY--ESTABLISHED TOMATOES:</b> Apply specified dosage in 20 to 75 gallons of water per acre as a broadcast spray, or apply in 1/4 to 3/4 inch of water (use 1/4 to 1/2 inch of water on sandy soils) per acre as a continuous injection in center pivot and lateral move systems or in the last 15 to 30 minutes of set in permanent solid set sprinkler systems, over the plants in single or multiple applications with a minimum of 14 days between treatments. For transplanted tomatoes do not apply within 14 days of transplanting. Transplants must have recovered from transplant shock and new growth evident. Do not apply to tomatoes within 24 hours of application of other pesticides. Do not tank mix with other pesticides. (See "Special Precautions" below.) |
|                                    | 1 to 2            | <b>POSTEMERGENCE DIRECTED SPRAY--ESTABLISHED TOMATOES:</b> Apply specified dosage in 20 to 75 gallons of water per acre as a directed spray in single or multiple applications with a minimum of 14 days between treatments. Avoid contacting tomato foliage with spray. This method of treatment is recommended for use in fields with a history of severe weed pressure or in fields infested with hard-to-control weeds. For transplanted tomatoes, do not apply within 14 days of transplanting. Transplants must have recovered from transplant shock and new growth evident. Do not apply to tomatoes within 24 hours of application of other pesticides. (See "Special Precautions" below.) When banding see the appropriate section in the front of this label.                                      |

\*Use the higher rate in fields with a history of severe weed pressure and for maximum residual weed control.

**SPECIAL PRECAUTIONS (Tomatoes):** Do not apply more than a total of 2 pt SENCOR 4 per crop season.

Do not apply the total amount of 2 pt SENCOR 4 within a time span of less than 35 days, except in the case of directed sprays.

Allow at least 14 days between applications, regardless of dosage or method of application.

Do not apply within 7 days of harvest.

Do not apply within 3 days after periods of cool, wet or cloudy weather, or crop injury will occur.

Do not use hot caps on tomatoes within 7 days before or at any time after application of SENCOR 4. Do not treat seeded tomatoes until plants have reached the 5 to 6 leaf stage.

Crop injury or delayed maturity may result from broadcast or directed spray applications if tomatoes are growing under stress conditions such as periods of drought or cool, wet and cloudy weather preceding application.

For newly introduced tomato varieties with unknown tolerance to SENCOR, treat only a small area to determine if SENCOR 4 can be used without injury to the crop.

**DO NOT USE SENCOR 4 ON TOMATOES IN KERN COUNTY, CALIFORNIA.**

**CEREALS**  
**(Spring and Winter Barley and Winter Wheat)**

For suppression or control of certain grass and broadleaf weeds, apply SENCOR 4 herbicide postemergence to barley (Winter and Spring) and Winter wheat (see the appropriate section of this label for geographic limitations):

1. Barley (Spring and Winter) and Winter Wheat in Idaho, Montana, Nevada, Oregon, Utah, and Washington.
2. Dryland (Non-irrigated) Winter wheat in Kansas, Oklahoma and Texas.
3. Dryland (Non-irrigated) Winter wheat only (Arkansas, Georgia, Kentucky, Louisiana, Mississippi, Tennessee and Missouri "Bootheel").

**Mixing:** See the "General Information" section in the front of this label for specific mixing procedures. Do not tank mix SENCOR 4 with pesticides other than those specified below. When tank-mixing, carefully follow the instructions on this label. Refer to the other product label registered for use on barley and wheat for additional directions, rates, weeds controlled and restrictions.

**Application:** Refer to the "General Information" section in the front of this label for detailed information on the application of SENCOR 4. Do not exceed the rates specified below.

Apply SENCOR 4 when crop is healthy and actively growing. Weed control may not be observed for 2 to 4 weeks after application; under very dry conditions, weed control may not be apparent for 4 to 6 weeks. Moisture (at least 1/2 inch) is needed 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 control. Control or suppression of listed weeds is dependent on weed size. Control or suppression can be reduced if broadleaf weeds are taller than 1 inch or grasses have more than 2 leaves.

If SENCOR 4 is applied more than once per crop season allow at least 45 days between applications.

SENCOR 4 may be tank mixed with Ally, Amber, Finesse, Glean, Harmony, Harmony Extra, 2,4-D, MCPA, Igran, Banvel, Bronate, or Buctril herbicides. Refer to the other product labels registered for use on cereals for additional directions, rates, and weed species controlled. Observe all cautions and limitations on labeling of all products used in mixtures.

**Grazing and Harvesting Treated Crops:** Wheat may be grazed 14 days following application, but do not harvest grain within 21 days after last application. Do not graze or harvest barley before crop maturity.

**SPECIAL PRECAUTIONS (Cereals)**

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, or when these conditions follow the application.
2. In combination with fluid fertilizer.
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. Temporary chlorosis may occur after application to wheat, especially if frost occurs.



**BARLEY AND WINTER WHEAT**  
**Idaho, Montana, Nevada, Oregon, Utah, and Washington**

SENCOR 4 herbicide is recommended for post-emergence application in Winter and Spring barley and Winter wheat.

Varieties approved for use of SENCOR herbicide include:  
**Winter Wheat:** Basin, Batum, Centurk, Cheyenne, Daws, Dusty, Faro, Gaines, Hatton, Hill 81, Hyak, Hyslop, Lewjain, Luke, Madsen, Malcom, McDermid, Moro, Neely, Norstar, Nugaines, Paha, Peck, Redwin, Sprague, Stephens, Tye, Wanser, Weston, and Winalta.

**Barley:** Advance, Boyer, Clark, Compana, Harnchen, Hector, Hesk, Hudson, Lud, Luther, Kamiak, Klages, Olympic, Piroline, Steptoe and Triumph.

The following varieties have proven to be sensitive to SENCOR and should not be treated: **Winter Wheat:** Vona, Wings, Winridge, and Yamhill. 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, contact a Miles representative or herbicide expert for a recommendation before treating any unlisted variety.

**WEEDS CONTROLLED:**

Broadleaves

|  |  |
|--|--|
| Annual Polemonium (Jacob's Ladder)<br>( <i>Polemonium micranthum</i> ) | Mayweed (dog fennel)<br>( <i>Eupatorium capillifolium</i> )    |
| Chickweed, Common<br>( <i>Stellaria media</i> )                        | Miners Lettuce<br>( <i>Claytonia perfoliata</i> )              |
| Conical Catchfly<br>( <i>Silene conica</i> )                           | Mustard, Jim Hill (tumble)<br>( <i>Sisymbrium altissimum</i> ) |
| Corncockle<br>( <i>Agrostemma githago</i> )                            | Mustard, Wild<br>( <i>Brassica kaber</i> )                     |
| Tarweed, Fiddleneck<br>( <i>Amsinckia lycopoides</i> )                 | Pennycress, Field<br>( <i>Thlaspi arvense</i> )                |
| Gromwell<br>( <i>Lithospermum officinale</i> )                         | Pineappleweed<br>( <i>Matricaria matricarioides</i> )          |
| Henbit<br>( <i>Lamium amplexicaule</i> )                               | Prickly Lettuce<br>( <i>Lactuca serriola</i> )                 |
| Ivyleaf Speedwell<br>( <i>Veronica hederifolia</i> )                   | Pigweeds, Annual<br>( <i>Amaranthus</i> spp.)                  |
| Knotweed, Prostrate<br>( <i>Polygonum aviculare</i> )                  | Redstem Filaree<br>( <i>Erodium cicutarium</i> )               |
| Lambsquarters, Common<br>( <i>Chenopodium album</i> )                  | Shepherdspurse<br>( <i>Capsella bursa-pastoris</i> )           |
| Madwort (Catchweed)<br>( <i>Asperugo procumbens</i> )                  |  |

**WEEDS SUPPRESSED:** Control of these weeds varies from poor to excellent depending on timing of application, stage of growth at the time of application, temperatures, and soil moisture conditions following treatment. For maximum effect on these weeds use the highest recommended rate for growth stage, soil texture, and percent organic matter. Suppression is a reduction in weed size and growth compared to a non-treated area in the same field.

Broadleaves

|  |
|--|
| Cowcockle<br>( <i>Vaccaria pyramidata</i> )        |
| Kochia<br>( <i>Kochia scoparia</i> )               |
| Mustard, Tansy<br>( <i>Descurainia pinnata</i> )   |
| Russian Thistle<br>( <i>Salsola iberica</i> )      |
| Wild Buckwheat<br>( <i>Polygonum convolvulus</i> ) |

Grasses

|   |  |
|---|--|
| Blackgrass (Black twitchgrass)<br>( <i>Alopecurus myosuroides</i> ) | Rescuegrass<br>( <i>Bromus catharticus</i> )       |
| Bluegrass, Annual<br>( <i>Poa annua</i> )                           | Ripgut Brome<br>( <i>Bromus diandrus</i> )         |
| Bluegrass, Bulbous<br>( <i>Poa bulbosa</i> )                        | Ryegrass, Italian<br>( <i>Lolium multiflorum</i> ) |
| Cheatgrass<br>( <i>Bromus secalinus</i> )                           | Wild Barley<br>( <i>Hordeum leporinum</i> )        |
| Downy Brome<br>( <i>Bromus tectorum</i> )                           | Wild Oats<br>( <i>Avena fatua</i> )                |
| Foxtails<br>( <i>Setaria</i> spp.)                                  | Windgrass<br>( <i>Apera spica-venti</i> )          |

SPRING AND WINTER BARLEY - WINTER WHEAT (Continued)

| RECOMMENDED APPLICATIONS<br>SPRING AND WINTER BARLEY - WINTER WHEAT<br>(Idaho, Montana, Nevada, Oregon, Utah and Washington)   |                                |           |                             |          |
|--|--------------------------------|-----------|-----------------------------|----------|
| SOIL TYPE <sup>1</sup>   | Fluid Ounces SENCOR 4/Acre     |           |                             |          |
|  | 2-Leaf - 4 Tiller <sup>2</sup> |           | Over 4 Tillers <sup>2</sup> |          |
|  | % Organic Matter               |           | % Organic Matter            |          |
|  | 0.75 - 2.0                     | Over 2.0  | 0.75 - 2.0                  | Over 2.0 |
| <b>COARSE</b><br>(Sandy loam, loamy sand)  | 1.5 - 3                        | 1.5 - 4.5 | 6 - 9                       | 7.5 - 12 |
| <b>MEDIUM</b><br>(Loam, silt loam, sandy clay, sandy clay loam)  | 1.5 - 4.5                      | 3 - 4.5   | 6 - 12                      | 7.5 - 12 |
| <b>FINE</b><br>(Silty clay, silty clay loam, clay, clay loam)  | 3 - 4.5                        | 3 - 6     | 7.5 - 12                    | 12 - 16  |
| <sup>1</sup> Do not use on soils containing less than 0.75% organic matter.  |                                |           |                             |          |
| <sup>2</sup> Use these rates on crops with secondary roots smaller than 1 inch. SENCOR 4 may be used in combination with other herbicides listed under "Application" for early season control of broadleaf weeds and suppression of downy brome. |                                |           |                             |          |
| <sup>3</sup> Use only when plants have more than 4 tillers and after secondary roots have developed and are larger than 1 inch in length.  |                                |           |                             |          |

Do not apply more than a total of 8 oz active ingredient, regardless of formulation, per acre per year.

water for the first irrigation; the maximum amount for each additional irrigation should not exceed 1 inch. Allow at least 14 days between the first irrigation following treatment and subsequent irrigations.

On irrigated cereals, do not apply more than 1/2 inch of

**DRYLAND (NON-IRRIGATED) WINTER WHEAT**  
Kansas, Oklahoma and Texas

FOR USE ONLY ON THE VARIETIES GARST 64, HAWK, LARNED, NEWTON, PIONEER 2157, STALLION, TAM W101, TAM 105, VICTORY, AND WRANGLER.

**WEEDS CONTROLLED:**

Broadleaves

- |  |  |
|--|--|
| Annual Polemonium (Jacob's Ladder)<br>( <i>Polemonium micranthum</i> ) | Lambsquarters<br>( <i>Chenopodium album</i> )          |
| Chickweed, Common<br>( <i>Stellaria media</i> )                        | *Mustard, Blue<br>( <i>Chorispora tenella</i> )        |
| Tarweed, Fiddleneck<br>( <i>Amsinckia lycopsoides</i> )                | *Mustard, Jim Hill<br>( <i>Sisymbrium altissimum</i> ) |
| Henbit<br>( <i>Lamium amplexicaule</i> )                               | *Mustard, Wild<br>( <i>Brassica kaber</i> )            |
| *Kochia<br>( <i>Kochia scoparia</i> )                                  | Pigweeds<br>( <i>Amaranthus</i> spp.)                  |

Grasses

- \*Cheatgrass  
(*Bromus secalinus*)
- \*Downy Brome  
(*Bromus tectorum*)
- \*Foxtails  
(*Setaria* spp.)
- \*Rescuegrass  
(*Bromus catharticus*)

\*For control of these weeds, use the highest rate recommended for soil texture and percent organic matter.

stage of growth at time of application, temperatures and soil moisture conditions following treatment.

Hard to Control Weeds: \*Italian ryegrass (*Lolium multiflorum*), \*wild oats (*Avena fatua*), and \*wild buckwheat (*Polygonum convolvulus*).

NOTE: Control of these weeds may be variable, ranging from poor to excellent depending on timing of application,

**DRYLAND (NON IRRIGATED) WINTER WHEAT (Continued)**

| RECOMMENDED BROADCAST APPLICATIONS  |                               |          |              |              |  |
|---|-------------------------------|----------|--------------|--------------|--|
| SOIL TYPE   | SENCOR 4 Pt/Acre              |          |              |              | REMARKS  |
|   | % Organic Matter <sup>1</sup> |          |              |              |  |
|   | Fall                          |          | Spring       |              |  |
|   | 1 to 2%                       | Over 2%  | 1 to 2%      | Over 2%      |  |
| <b>COARSE</b><br>(Sandy loam, loamy sand)                                   | 1/2                           | 1/2      | 1/2          | 1/2 to 3/4   | Apply specified dosage per acre with aerial or ground spray equipment as a broadcast post-emergence spray. For Fall or Spring application, refer to "Application" in the beginning of this Cereals section for information on timing of application and growth restrictions. |
| <b>MEDIUM</b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)       | 1/2 to 3/4                    | 3/4      | 3/4 to 1     | 3/4 to 1 1/4 |  |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>2</sup> , clay, clay loam) | 3/4                           | 3/4 to 1 | 3/4 to 1 1/4 | 1 to 1 1/2   |  |

<sup>1</sup> Do not use on any soils containing less than 1% organic matter.

<sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

**SENCOR in Combination with Other Herbicides:** SENCOR may be applied as directed above or may be tank mixed with those herbicides listed under "Application."

**DRYLAND (NON-IRRIGATED) WINTER WHEAT**

Arkansas, Georgia, Kentucky, Louisiana, Mississippi, Tennessee and Missouri "Bootheel"

**Weeds Controlled:**

Broadleaves

|   |  |
|---|--|
| Bittercress<br>( <i>Cardamine</i> spp.)                     | Pepperweed, Virginia<br>( <i>Lepidium virginicum</i> ) |
| *Buttercup<br>( <i>Ranunculus</i> spp.)                     | Pigweeds<br>( <i>Amaranthus</i> spp.)                  |
| Carolina Geranium<br>( <i>Geranium carolinianum</i> )       | Shepherdspurse<br>( <i>Capsella bursa-pastoris</i> )   |
| Chickweed, Common<br>( <i>Stellaria media</i> )             | Wild Turnip<br>( <i>Brassica rapa</i> )                |
| Chickweed, Mouseear<br>( <i>Cerastium vulgatum</i> )        | Wild Radish<br>( <i>Raphanus raphanistrum</i> )        |
| Cutleaf Evening Primrose<br>( <i>Oenothera laciniata</i> )  |  |
| Henbit<br>( <i>Lamium amplexicaule</i> )                    |  |
| *Kochia<br>( <i>Kochia scoparia</i> )                       |  |
| Lambsquarters, Common<br>( <i>Chenopodium album</i> )       |  |
| Mayweed (dog fennel)<br>( <i>Eupatorium capillifolium</i> ) |  |
| Mustard, Wild<br>( <i>Brassica kaber</i> )                  |  |

Grasses

|   |
|---|
| Bluegrass, Annual<br>( <i>Poa annua</i> )           |
| *Cheatgrass<br>( <i>Bromus secalinus</i> )          |
| *Downy Brome<br>( <i>Bromus tectorum</i> )          |
| Little Barley<br>( <i>Hordeum pusillum</i> )        |
| *Rescuegrass<br>( <i>Bromus catharticus</i> )       |
| *Ryegrass, Italian<br>( <i>Lolium multiflorum</i> ) |
| Whitlowgrass, Vernal<br>( <i>Draba verna</i> )      |

**DRYLAND (NON-IRRIGATED) WINTER WHEAT (Continued)**

\*For control of these weeds on fine soils, use SENCOR 4 at 1 pt/acre.

Recommended for use only on the following wheat varieties:

Note: Control of wild buckwheat (*Polygonum convolvulus*) and winter vetch (*Vicia* spp.) may be variable with SENCOR 4, ranging from poor to excellent depending on stage of growth at time of application, temperatures and moisture conditions following application.

Abe, Arthur 71, Caldwell, Coker 747, Coker 762, Coker 797, Coker 68-15, Doublecrop, Florida 302, Hunter, McNair 1003, McNair 1813, Magnum, Nelson, Oasis, Omega 78, Pike, Pioneer 2550, Pioneer 2555, Saluda, Southern Belle, Stacy, Traveler, Twain, and Tyler.

| RECOMMENDED BROADCAST APPLICATIONS   |                               |   |
|--|-------------------------------|---|
| SOIL TEXTURE <sup>1</sup>  | SENCOR 4 <sup>1</sup> Pt/Acre | REMARKS   |
| <b>COARSE</b><br>(Sandy loam, loamy sand)  | 1/2                           | Apply specified dosage per acre as a broadcast postemergence spray. For wheat coming out of winter dormancy, allow at least two weeks for plants to recover before application. If wheat has been grazed during the winter, allow at least two weeks for recovery before application. Do not apply before 75 days after planting. Apply only after wheat has 4 tillers, but before jointing.<br><br><b>Georgia Only:</b> 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. |
| <b>MEDIUM</b><br>(Loam, silt loam, silt, sandy clay, sandy clay loam)  | 3/4                           |   |
| <b>FINE</b><br>(Silty clay, silty clay loam <sup>2</sup> , clay, clay loam)  | 3/4 to 1 <sup>3</sup>         |   |
| <sup>1</sup> Do not use on coarse soils containing less than 1% organic matter or on Medium or Fine textured soils containing less than 0.5% organic matter. |                               |   |
| <sup>2</sup> Silty clay loam soils are transitional soils and may be classified as Medium textured soils in some regions of the U.S.                         |                               |   |
| <sup>3</sup> Use 1 pt per acre for control of weed species designated with an asterisk under "Weeds Controlled".   |                               |   |

**SENCOR in Combination with other Herbicides:** SENCOR 4 may be applied as directed above or may be tank mixed with those herbicides listed under "Application."

**FOR WEED CONTROL IN A WHEAT/FALLOW/WHEAT ROTATION  
(Idaho, Oregon, Utah and Washington Only)**

SENCOR 4 may be applied to provide weed control during the fallow period after wheat harvest or in the Spring before winter wheat is planted. Winter wheat can be seeded 4 months (120 days) after Spring application. Mechanical tillage or the application of a contact herbicide may be required to control weeds germinating prior to seeding of winter wheat. Best results will be obtained where straw and chaff are evenly distributed across the field.

For specific application information see the "General Information" section in the front of this label.

Where weed growth is present at application time, SENCOR 4 should be applied with Gramoxone or other contact herbicide. Refer to the other product label registered for additional directions, rates, and weed species controlled.

**WEEDS CONTROLLED:**

Broadleaves

Chickweed, Common  
(*Stellaria media*)  
Henbit  
(*Lamium amplexicaule*)  
\*Kochia  
(*Kochia scoparia*)  
Lambsquarters  
(*Chenopodium album*)  
Mustard, Blue or Purple  
(*Chorispora tenella*)  
Mustard, Jim Hill  
(*Sisymbrium altissimum*)  
Mustard, Tansy  
(*Descurainia pinnata*)

Mustard, Treacle  
(*Erysimum repandum*)  
Mustard, Wild  
(*Brassica kaber*)  
Pennycress, Field (Fanweed)  
(*Thlaspi arvense*)  
Pigweeds  
(*Amaranthus spp.*)  
\*Russian thistle  
(*Salsola iberica*)  
\*Wild Sunflower  
(*Helianthus spp.*)

Grasses

Cheatgrass  
(*Bromus secalinus*)  
Downy Brome  
(*Bromus tectorum*)  
\*Wheat, Volunteer  
(*Triticum spp.*)

\*Note: Since control of these weeds may be variable depending on moisture following application, the higher labelled rate is recommended.

**After Harvest Application (Fall Fallow):** SENCOR 4 may be applied to wheat stubble after harvest in the Fall. Apply 1 to 1 1/4 pt per acre broadcast before weeds emerge. Use higher rate for longer weed control or for weeds designated as requiring the higher rate for control. Rainfall (1/2 inch or more) is necessary for herbicide activation .

Do not plant crops in treated areas for at least 10 months following Fall applications.

SENCOR 4 may be applied at 1 to 1 1/4 pt per acre as directed above for a Fall application. If other vegetation is present at the time of application use a contact herbicide.

**Spring Application (Summer Fallow):** SENCOR 4 may be applied to wheat stubble in the Spring. Apply 3/4 to 1 pt per acre broadcast before weeds emerge in the Spring. Use higher rate for longer weed control or weeds designated as requiring higher rate for control. Rainfall (1/2 inch or more) is necessary for herbicide activation.

**Precautions and Restrictions:** Do not graze treated fields.

Do not plant Spring seeded cereals following Fall fallow applications of SENCOR.

Where SENCOR was applied in the Fall, do not apply SENCOR in the Spring.

**FOR WEED CONTROL IN A FALLOW ROTATION WITH BARLEY AND WHEAT  
(Colorado, Kansas, Montana, Nebraska, and Wyoming Only)**

SENCOR 4 may be applied to provide weed control during the fallow period after wheat or barley harvest or in the Spring before planting of Winter wheat or barley. Mechanical tillage or the application of a contact herbicide may be required to control weeds germinating prior to seeding of Winter wheat or barley.

For specific application information see the "General Information" section in the front of this label.

Where weed growth is present at application time, SENCOR 4 should be applied with Gramoxone, Roundup, or other contact herbicide. Refer to the other product label registered for additional directions, rates, and weed species controlled. Do not plant crops in treated areas earlier than 10 months following Fall applications.

**WEEDS CONTROLLED:**

Broadleaves

- |  |   |
|--|---|
| Chickweed, Common<br>( <i>Stellaria media</i> )          | Mustard, Wild<br>( <i>Brassica kaber</i> )                |
| Cowcockle<br>( <i>Vaccaria pyramidata</i> )              | Pennycress, Field (fanweed)<br>( <i>Thlaspi arvense</i> ) |
| Henbit<br>( <i>Lamium amplexicaule</i> )                 | Pigweeds<br>( <i>Amaranthua</i> spp.)                     |
| *Kochia<br>( <i>Kochia scoparia</i> )                    | Russian thistle<br>( <i>Salsola iberica</i> ) Wild        |
| Lambsquarters<br>( <i>Cheropodium album</i> )            | Sunflower<br>( <i>Helianthus</i> spp.)                    |
| Mustard, Blue or Purple<br>( <i>Chorispora tenella</i> ) |   |
| Mustard, Jirn Hill<br>( <i>Sisymbrium altissimum</i> )   |   |
| Mustard, Tansy<br>( <i>Descurainia pinnata</i> )         |   |
| Mustard, Treacle<br>( <i>Eyrsimum repandum</i> )         |   |

Grasses

- Cheatgrass  
(*Bromus secalinus*)
- Downy Brome  
(*Bromus tectorum*)
- \*Foxtail, Green  
(*Setaria viridis*)
- \*Wheat, Volunteer  
(*Triticum* spp.)
- \*Wild Oats  
(*Avena fatua*)

\*Note: Since control of these weeds may vary depending on moisture following application, use the higher rate recommended below.

**AFTER HARVEST APPLICATION (Fall Fallow):** SENCOR 4 may be applied to the stubble after harvest in the Fall. Apply 1 1/4 to 1 1/2 pt per acre broadcast before weeds emerge. Use the higher rate for longer weed control or for weeds designated as requiring the higher rate for control. Rainfall (1/2 inch or more) is necessary for herbicide activation.

**SPRING APPLICATION (Summer Fallow):** SENCOR 4 may be applied to the stubble in the Spring. Apply 3/4 to 1 pt per acre broadcast before weeds emerge in the Spring. Use the higher rate for longer weed control or weeds designated as requiring the higher rate for control. Rainfall (1/2 inch or more) is necessary for herbicide activation. Wheat or barley can be seeded 120 days after Spring application.

**Precautions and Restrictions:** Do not graze treated fields.

Do not plant Spring seeded cereals following Fall applications for fallow.

Where SENCOR was applied in the Fall, do not apply SENCOR in the Spring.

## CROP ROTATION RECOMMENDATIONS

### Waiting Period After SENCOR Herbicide Application<sup>1</sup>

| <u>4 Months</u>     | <u>8 Months</u> | <u>12 Months</u> | <u>18 Months</u> |
|---------------------|-----------------|------------------|------------------|
| Alfalfa             | Barley          | Other Crops      | Sugar Beets      |
| Barley <sup>2</sup> | Cotton          | not listed       | Onions           |
| Asparagus           | Lentils         | (except          | And Other        |
| Corn                | Peas            | root crops)      | root crops       |
| Forage Grasses      | Rice            |                  |                  |
| Potatoes            | Wheat           |                  |                  |
| Sainfoin            |                 |                  |                  |
| Soybeans            |                 |                  |                  |
| Sugarcane           |                 |                  |                  |
| Tomatoes            |                 |                  |                  |
| Wheat <sup>2</sup>  |                 |                  |                  |

<sup>1</sup> Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed. Stand reductions may occur in some areas.

<sup>2</sup> Following peas, lentils or soybeans.

## STORAGE AND DISPOSAL

**Pesticide Disposal:** Do not contaminate water, food or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

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Miles, Inc.  
Crop Protection Products  
Box 4913, Kansas City, MO 64120-0013