Sencor® DF 75% Dry Flowable

Herbicide

For control of certain grasses and broadleaf weeds.

ACTIVE INGREDIENT:
Metribuzin, 4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one. .......................... 75%
INERT INGREDIENTS: ......................................... 25%

Total 100%

EPA Reg. No. 264-738  EPA Est. No. 3125-MG-001

STOP—Read the label before use

KEEP OUT OF REACH OF CHILDREN

CAUTION

For MEDICAL AND TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

FIRST AID

IF SWALLOWED:
• Call a poison control center or doctor immediately for treatment advice.
• Have person sip a glass of water if able to swallow.
• Do not induce vomiting unless told to do so by a poison control center or doctor.
• Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15 to 20 minutes.
• Call a poison control center or doctor for treatment advice.

IF IN EYES:
• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
• Call a poison control center or doctor for treatment advice.

In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577. Have a Sencor® container or label with you when calling a poison control center or doctor, or going for treatment.

Note To Physician: Treat patient symptomatically.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation.

Personal Protective Equipment: Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA Chemical Resistant Category Selection Chart.

Applicators and other handlers must wear:
• Long-sleeved shirt and long pants
• Chemical-resistant gloves made out of any water-proof material
• Shoes plus socks

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides, the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

User should:
• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
• Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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

Obtain prompt medical aid if poisoning should occur.

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

ENVIRONMENTAL HAZARDS

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 treated areas. Do not contaminate water when disposing of equipment washwaters.

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 authorities can provide further information on the type of soil in your area and the location of ground water.

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.

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
• Applicators and other handlers must use chemical resistant gloves, such as Butyl Rubber, or Nitrile Rubber, or Neoprene Rubber, or Natural Rubber.
• Shoes plus socks

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: 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 Bayer CropScience Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer CropScience Emergency Response Telephone No. is 1-800-334-7577.

Pesticide 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 incinerate, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

MIXING: When using Sencor® DF, 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® DF 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® DF alone or in tank mix combinations with other herbicides is:
1. Fill the spray tank ¼ to ½ full with clean water.
2. Add recommended rate of Sencor® DF 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.

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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.

GENERAL PRECAUTIONS AND RESTRICTIONS
• Do not apply sprays to drift to or adjacent desirable plants.
• Apply this product only as specified on this label.
• Do not use on other crops grown for food or forage. Observe all cautions and limitations on labeling of all products used in mixtures.
• Do not rotate any crop not listed on this label for 18 months following application of Sencor DF.
• For all uses: Low-pressure and high-volume hand-wage equipment is prohibited.

CHEMIGATION
SencorRDF is recommended for application through sprinkler irrigation equipment to potatoes, soybeans, tomatoes, and asparagus as directed on this label. Refer to the crop section 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 SencorRDF. 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 ⅛ to ⅜ inch of water per hour.
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 SencorRDF 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 (1200/2 = 600); to treat 135 acres at ½ lb/acre, 90.5 lb of SencorRDF 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 lift or the pump must utilize 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 the herbicide suspension.

Apply specified dosage in ¼ to ½ inch of water (¼ to ½ 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 herbicide 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 ensure 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.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION
Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed ⅔ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.
3. Where states have more stringent regulations, they should be observed.
4. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

INFORMATION ON DROPLET SIZE: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions). CON-TROLLING DROPLET SIZE:

• Volume—Use high flow rate nozzles to apply the highest practical spray volume.

Nozzles with higher rated flows produce larger droplets.

• Pressure—Do not exceed the nozzle manufacturer’s recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are required, use higher flow rate nozzles instead of increasing pressure.

• Number of nozzles—Use the minimum number of nozzles that provide uniform coverage.

• Nozzle Orientation—Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

• Nozzle Type—use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid fan and nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH: For some use patterns, reducing the effective boom length to less than ⅔ of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and/or drift.

SWATH ADJUSTMENT: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upward. Swath adjustment should increase, with increasing drift potential (higher wind, smaller drops, etc.)

WIND: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be made below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry. TEMPERATURE INVERSIONS: Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue through the night with air masses generally being fairly stagnant. If this condition is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS: SencorRDF should only be used when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitats for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).
APPLICATION OF SENCOR® DF 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® DF in a minimum of 10 to 40 gallons of spray mixture per acre broadcast.

Banded Application: Use proportionally less Sencor® DF per acre in a band versus a broadcast application. For band application use ½ 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® DF: Sprayer must be accurately calibrated before applying Sencor® DF. 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 and instructions. Rinse the spray tank and refill with water, adding 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® DF IN FLUID FERTILIZERS

Sencor® DF 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® DF 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 teaspoonsfuls of Sencor® DF with 8 teaspoonsfuls of water (1:4 ratio) in a quart jar by adding the water first and follow with Sencor® DF. Mix thoroughly. If necessary, double the amount of water (1:8 ratio) and add the second herbicide after mixing Sencor® DF 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 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 reensubped 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® DF 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® DF and follow by adding the second herbicide, and agitate continuously until the tank is fully fluidized.
3. Maintain continuous agitation to assure uniform spray mixture until the tank is emptied.

COMMERCIAL IMPREGNATION AND APPLICATION OF SENCOR® DF ON DRY BULK FERTILIZER

Dry bulk fertilizer may be impregnated or coated with Sencor® DF for application to established alfalfa and 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 lb dry bulk fertilizer per acre and up to a maximum of 450 lb per acre. To impregnate or coat dry bulk fertilizer, mix Sencor® DF 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 the equipment. The imme diate imbibition of Sencor® DF to dry bulk fertilizer will vary and if the absorbivity is not adequate, an absorptive powder may be added to produce a dry, fine-flowing mixture. Micro-Cel E (Johns-Manville Product Corporation) is the recommended absorbent powder. When another herbicide is used with Sencor® DF, 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® DF per acre from the appropriate section of this label and refer to the formula below to determine the amount of Sencor® DF 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.

\[
\text{Lb Sencor® DF} = \frac{\text{Lb Dry Bulk Fertilizer} \times \text{Lb Sencor® DF per Acre}}{\text{Acre}}
\]

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 ½ the recommended rate and overlap 50 percent or to double apply by splitting the middle to obtain the best distribution pattern.

If fertilizer materials are excessively dry, 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® DF 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® DF herbicide tank mix combinations are recommended for preplant incorporated applications, preemergence surface applications, Split-Shot application and Extended Split-Shot application. Sencor® DF 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® DF can be applied as a postemergence directed spray to soybeans in certain states.

SPECIAL PRECAUTIONS (Soybeans): Injury to soybeans may occur when Sencor® DF is used under the following conditions:
- When soils have a calcareous surface area or a pH of 7.5 or higher.
- Due to the sensitivity of certain soybean varieties, Sencor® DF is not recommended for use on Albion, AP 30, AP 71, Asgrow 6250, Burlison, Coker 102, Coker 156, Dassel, GL 3205, Govan, Maple Amber, NB 3665, NKS 1884, Paloma 350, Portage, Regal, Semmes, Targa-Vig 505, Targa-Vig 606, Tracy, Vansoy, and Vinton 81. Consult your Bayer CropScience Representative or your seed supplier for information on the tolerance to Sencor® of newly released soybean varieties, prior to use of Sencor® DF.
- When applied in conjunction with soil-applied organic phosphate pesticides.
- Over application or boom overlapping may result in stand loss and soil residues.
- Uneven application or improper incorporation can decrease the level of weed control and/or increase the level of injury.
- When applied to any soil with less than ½% organic matter.
- Soil incorporation deeper than recommended.
- When sprayers are not calibrated accurately.
- When heavy rains occur soon after application, especially in poorly drained areas where water may stand for several days.
- When soybeans are planted less than ½ inches deep, particularly in preemergence application.
- Activation: A minimum amount of soil moisture is required to activate Sencor® DF. In areas of heavy rainfall, preemergence applications to dry soil should be followed with light irrigation of ¼ 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® DF is applied alone or with Treflan®, Dual®, Provis®, or Lasso®.

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

Rate Ranges: Where a rate range is shown, use a lower rate on soils that are coarse-textured or on heavy clay. Use a higher rate on soils that are relatively fine-textured or in heavy clay.

Replanting: If replanting is necessary in fields treated with Sencor® DF 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

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<thead>
<tr>
<th>C = Control</th>
<th>S = Suppression or Erratic Control</th>
<th>P = Poor or No Control</th>
<th>0 = No Information (Control may range from poor to excellent)</th>
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<tbody>
<tr>
<td>1 = Sencor® Alone</td>
<td>4 = Sencor® plus Dual</td>
<td>7 = Extended Split-Shot</td>
<td>8 = Sencor® plus Sonalan</td>
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<tr>
<td>2 = Sencor® Split-Shot</td>
<td>5 = Sencor® plus Prowl</td>
<td>9 = Sencor® plus limuron plus (Lasso or Dual)</td>
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<tr>
<td>3 = Sencor® plus Treffan</td>
<td>6 = Sencor® plus Lasso</td>
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#### ANNUAL BROADLEAF WEEDS

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<td>Black Nightshade (Solanum nigrum)</td>
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<tr>
<td>Knotweed (Polygonum spp.)</td>
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<tr>
<td>Kochia (Kochia scoparia)</td>
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<tr>
<td>Lambquarters (Chenopodium spp.)</td>
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<tr>
<td>Morningglory, Iypeleaf (Ipomoea hederacea)</td>
<td>P</td>
<td>P</td>
<td>S</td>
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<td>P</td>
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<td>P</td>
<td>S</td>
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<td>P</td>
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<td>Morningglory, Smallflower (Jacquemontia ansinfolia)</td>
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<td>S</td>
<td>P</td>
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<td>Morningglory, Tall (Ipomoea purpurea)</td>
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<tr>
<td>Pigweeds (Amaranthus spp.)</td>
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<tr>
<td>Prickly Sida/Teaweed (Sida spinosa)</td>
<td>C</td>
<td>C</td>
<td>C</td>
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<td>C</td>
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<td>Purslane (Portulaca oleracea)</td>
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<tr>
<td>Ragweed, Common (Ambrosia artemisifolia)</td>
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<td>C</td>
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<tr>
<td>Redweed (Melochia corchorifolia)</td>
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<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
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<tr>
<td>Russian Thistle (Salsola kali)</td>
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<tr>
<td>Sesbania (Sesbania spp.)</td>
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<td>C</td>
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<td>Shepherdspurse (Capsella bursa-pastoris)</td>
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<td>Sicklepied (Cassia obturasifolia)</td>
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<tr>
<td>Smartweeds (Polygonum spp.)</td>
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<td>C</td>
<td>C</td>
<td>C</td>
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<tr>
<td>Spotted Spurge (Euphorbia maculata)</td>
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<td>C</td>
<td>P</td>
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<tr>
<td>Spurred Anoda (Anoda cristata)</td>
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<tr>
<td>Sunflower (Helianthus spp.)</td>
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<tr>
<td>Velvetleaf (Abutilon theophrasti)</td>
<td>C</td>
<td>C</td>
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<tr>
<td>Venice Mallow (Hibiscus trionum)</td>
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<td>C</td>
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<tr>
<td>Wild Mustards (Brassica spp.)</td>
<td>C</td>
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<td>C</td>
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#### WEEDS CONTROLLED BY SENCOR® AND SENCOR® HERBICIDE TANK MIX COMBINATIONS

<table>
<thead>
<tr>
<th>C = Control</th>
<th>S = Suppression or Erratic Control</th>
<th>P = Poor or No Control</th>
<th>0 = No Information (Control may range from poor to excellent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = Sencor® Alone</td>
<td>4 = Sencor® plus Dual</td>
<td>7 = Extended Split-Shot</td>
<td>8 = Sencor® plus Sonalan</td>
</tr>
<tr>
<td>2 = Sencor® Split-Shot</td>
<td>5 = Sencor® plus Prowl</td>
<td>9 = Sencor® plus limuron plus (Lasso or Dual)</td>
<td></td>
</tr>
<tr>
<td>3 = Sencor® plus Treffan</td>
<td>6 = Sencor® plus Lasso</td>
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#### ANNUAL GRASSES

<table>
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<tr>
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<th>3</th>
<th>4</th>
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<th>6</th>
<th>7</th>
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<th>9</th>
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<tbody>
<tr>
<td>Barnyardgrass (Echinochloa crus-galli)</td>
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<td>C</td>
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<tr>
<td>Bluegrass (Poa annua)</td>
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<tr>
<td>Broadleaf Signalgrass (Brachistia platyphylla)</td>
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<td>C</td>
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<tr>
<td>Browntop Millet (Panicum ramosum)</td>
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<td>C</td>
<td>C</td>
<td>P</td>
<td>C</td>
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<tr>
<td>Crabgrass (Dacty看了sepp.)</td>
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<td>C</td>
<td>C</td>
<td>C</td>
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<td>C</td>
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<tr>
<td>Crowfootgrass (Dactylolcium aegyptium)</td>
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<td>C</td>
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<tr>
<td>Cupgrass (Eriochloa gracilis)</td>
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<td>P</td>
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<td>Foxtails (Setaria spp.)</td>
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<tr>
<td>Goosegrass (Eleusine indica)</td>
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<tr>
<td>Johnsongrass, Seedling (Sorghum halepense)</td>
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<td>C</td>
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<tr>
<td>Junegrass (Echinochloa colona)</td>
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<td>C</td>
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<tr>
<td>Knotwgrass, Yellow (Cyperus esculentus)</td>
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<td>P</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>C</td>
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<tr>
<td>Panicum, Fall (Panicum dichotomiflorum)</td>
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<td>C</td>
<td>C</td>
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<td>C</td>
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<td>Panicum, Texas (Panicum texanum)</td>
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<td>C</td>
<td>S</td>
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<tr>
<td>Red Rice (Oryza sativa)</td>
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<td>C</td>
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<td>C</td>
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<tr>
<td>Sandbur (Cenchrus spp.)</td>
<td>P</td>
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<td>C</td>
<td>P</td>
<td>C</td>
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<tr>
<td>Shattercane (Sorghum bicolor)</td>
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<td>C</td>
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<tr>
<td>Sorghum, Volunteer (Sorghum spp)</td>
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<td>C</td>
<td>C</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>P</td>
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<tr>
<td>Sprangletop (Leptochloa spp.)</td>
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<td>C</td>
<td>C</td>
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<td>P</td>
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<tr>
<td>Stinkgrass (Eragrostis spp)</td>
<td>P</td>
<td>C</td>
<td>C</td>
<td>P</td>
<td>P</td>
<td>P</td>
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<tr>
<td>Wheat, Volunteer (Triticum spp)</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>P</td>
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</tr>
<tr>
<td>Witchgrass (Panicum capillare)</td>
<td>P</td>
<td>C</td>
<td>C</td>
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</table>

### SENCOR® ALONE

**Sencor® DF (Alone) Preemergence Application:** The following rates of Sencor® DF 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® DF 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.

### Lb of Sencor® DF Per Acre

<table>
<thead>
<tr>
<th>SOIL TEXTURE</th>
<th>Less than 2%</th>
<th>2 to 4%</th>
<th>Over 4%</th>
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<tbody>
<tr>
<td>ORGANIC MATTER</td>
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<tr>
<td>COARSE SOILS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Sandy loam, loamy sand)</td>
<td>DO NOT USE</td>
<td>1/4</td>
<td>1/4</td>
</tr>
<tr>
<td>MEDIUM SOILS</td>
<td>1/2 to 1/4</td>
<td>1/4 to 1/2</td>
<td>1/2 to 1/2</td>
</tr>
<tr>
<td>(Loam, silt loam, silt, sandy clay, sandy clay loam)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>FINE SOILS</td>
<td>1/4 to 1/2</td>
<td>1/2 to 1/2</td>
<td>1/2 to 1/2</td>
</tr>
<tr>
<td>(Silty clay, silty clay loam, clay, clay loam)</td>
<td></td>
<td></td>
<td></td>
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</table>
USES OF SENCOR® DF HERBICIDE IN COMBINATION WITH OTHER HERBICIDES

SEQUENTIAL APPLICATION OF SCEPTER® FOLLOWING SENCOR® DF

If needed, application of Sencor® DF 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 ½ to ½ pint of Scepter® (0.7 to 1.4 ounces of Scepter® 70 DG) in a minimum of 20 gallons of water per acre. Use ¾ pint of Scepter® (0.7 ounce of Scepter® 70 DG) if cockleburs 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 5/₆ 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 ½ 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 pt of nonionic surfactant approved for use on growing crops and containing at least 90% 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® DF tank mixed with either Treflan®, Lasso®, Dual®, Prowl® or Sonalan® and followed by a preemergence surface application of Sencor® DF 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® DF. Carefully observe the “Special Precautions” section concerning the use of Sencor® DF in tank mix combinations on soybeans.

When a Split-Shot application of Sencor® DF 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® DF 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

<table>
<thead>
<tr>
<th>SOIL TEXTURE</th>
<th>Rate of Combination Product/Acre</th>
<th>Rate of Sencor® DF Lb/Acre</th>
<th>Rate of Sencor® DF Lb/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse (Light) sand, loamy sand, sandy loam</td>
<td>Treflan® 1 pt</td>
<td>OR Lasso® 2 to 2 ½ pt</td>
<td>OR Dual® 1¼ to 1½ pt</td>
</tr>
<tr>
<td>MEDIUM loam, silty loam, sandy clay loam, silt, sandy clay</td>
<td>Treflan® 1½ pt</td>
<td>OR Lasso® 2½ to 3 qt</td>
<td>OR Dual® 1½ pt</td>
</tr>
<tr>
<td>FINE (Heavy) silty clay loam*, loamy clay, silt, clay, clay</td>
<td>Treflan® 2 pt</td>
<td>OR Lasso® 2½ to 3 qt</td>
<td>OR Dual® 2½ to 3 pt</td>
</tr>
</tbody>
</table>

1 Formed by forage legumes, redroot pigweed and wild mustard, and for suppression of yellow, and giant foxtails on alkaline (calcareous) soils in Nebraska, Minnesota, South Dakota and North Dakota only, apply Sencor® DF at rates of ½ lb/acre on medium soils and ½ to ⅔ lb/acre on fine soils regardless of soil organic matter percentage (use ½ lb only where soil pH is less than 7.5 and weed pressure is heavy). The ½ lb/acre rate of Sencor® DF alone can be applied regardless of soil pH. For control of other weeds listed on this label use Sencor® DF 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.

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

3 Refer to the appropriate section of this label for use of Sencor® DF on soybeans in coarse soils with 0.5% or more organic matter in certain states.

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 2½ qt Lasso® in the early preplant tank mix when surface applied and use 2½ to 3 qt Lasso® when the tank mix is to be lightly incorporated).

When weeds exceed 1 to 1½ 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

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

An early preplant (surface-applied or shallow incorporated) application of Sencor® DF tank mixed with either Dual® or Lasso®, followed by a preemergence surface application of Sencor® DF 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® DF 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.
SENCOR® DF PLUS SONALAN®

Sencor® DF plus Sonalan® Overlay Application: Sencor® DF 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® DF 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® DF 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 “Application” under “General Information” section in the front of this label.

SPECIAL PRECAUTIONS (Sencor® DF 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.

---

**BROADCAST RATES**

<table>
<thead>
<tr>
<th>SOIL TEXTURE</th>
<th>Sencor® DF Rate</th>
<th>Sonalan® Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>COARSE¹ (Sandy loam, loamy sand)</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>MEDIUM²</td>
<td>1/2 to 2</td>
<td>1/2 to 2</td>
</tr>
<tr>
<td>FINE³ (Silty clay, silty clay loam², clay, clay loam)</td>
<td>1/2</td>
<td>2/3 to 3</td>
</tr>
</tbody>
</table>

1 Do not use on coarse soil with less than 1% organic matter.
2 Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.
3 For control of lambsquarters, redroot pigweed, wild mustard, and green and yellow foxtails in alkaline (calcareous) soils in Minnesota, Nebraska, South Dakota, and North Dakota only, apply Sencor® DF at rates of ½ lb/acre on medium soils and ½ to 1 lb/acre on fine soils regardless of soil organic matter percentage (use ½ lb only where soil pH is less than 7.5 and weed pressure is heavy). The ½ lb rate of Sencor® DF 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® DF at full rates recommended in the table above, but note that crop injury may occur on soils having a calcarious surface area or a pH of 7.5 or higher.

SENCOR® DF PLUS TREFLAN®

Sencor® DF and Treflan® Overlay Application: Sencor® DF may be applied as a preemergence broadcast or band overlay application following a preplant 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® DF plus Treflan® Tank mix Application: A single application of a tank mix combination of Sencor® DF and Treflan® EC will control more broadleaf and grass weeds in soybeans than when either hericide 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® DF 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® DF plus Treflan® to the soil surface and incorporate in the same operation, if possible. Variable weed control may result from delayed incorporation if Sencor® DF 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® DF plus Treflan® thoroughly with the soil. Incorporation may be delayed up to 24 hours after application. Shallower 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.

Incorporation Equipment:
1. Set PTO-driven equipment (tillers, cultivators, hoes) to cut to 3 inches deep and operate twice at 6 to 8 miles per hour.
2. Set disk to cut to 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.
4. For coarse and medium textured soils only:
   - Set rolling cultivator to cut to 4 inches deep and operate twice at 6 to 8 miles per hour. Set bed conditioner (Do-All) to cut to 4 inches deep and operate at 4 to 6 miles per hour.

---

**EXTENDED SPLIT-SHOT APPLICATION**

<table>
<thead>
<tr>
<th>SOIL TEXTURE</th>
<th>Rate of Combination Product/Acre</th>
<th>Rate of Sencor® DF Lb/Acre</th>
<th>Followed By</th>
<th>Rate of Combination Product/Acre</th>
<th>Rate of Sencor® DF Lb/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>COARSE (Light)</td>
<td>Dual® 1½ pt or Lasso® 1½ to 2 qt</td>
<td>½ to ½</td>
<td>Dual® or Lasso® 1½ qt</td>
<td>Plus</td>
<td>½ to ½</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>Lasso® 2 to 3 qt</td>
<td>½ to ½</td>
<td>1 to 2 qt</td>
<td>Plus</td>
<td>½ to ½</td>
</tr>
<tr>
<td>FINE (Heavy)</td>
<td>Dual® 2 pt or Lasso® 2 to 3 qt</td>
<td>½ to ½</td>
<td>1 pt</td>
<td>Plus</td>
<td>½ to ½</td>
</tr>
<tr>
<td></td>
<td>or Lasso® 1 to 2 qt</td>
<td>½ to ½</td>
<td>Plus</td>
<td>½ to ½</td>
<td>½ to ½</td>
</tr>
</tbody>
</table>

¹ Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.
2 On coarse textured soils, do not use on sand soil with less than 1% organic matter. However, on coarse textured soils with a calcarious 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 soil with less than 1% organic matter.
3 Use the lower rate of Sencor® DF in the early preplant tank mix on soils having a calcarious 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.

---

**BROAD BASE RATES**

<table>
<thead>
<tr>
<th>SOIL TEXTURE</th>
<th>Sencor® DF Rate</th>
<th>Treflan® EC Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>COARSE¹ (Sandy loam, loamy sand)</td>
<td>¼</td>
<td>1/2</td>
</tr>
<tr>
<td>MEDIUM² (Loam, silt loam, silty, sandy clay, sandy clay loam)</td>
<td>1/2</td>
<td>1/3</td>
</tr>
<tr>
<td>FINE³ (Silty clay, silty clay loam², clay, clay loam)</td>
<td>1/2</td>
<td>1/3</td>
</tr>
</tbody>
</table>

1 Do not use on coarse soils with less than 1% organic matter.
2 Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.
3 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® DF at rates of ½ lb/acre on medium soils and ½ to 1 lb/acre on fine soils regardless of soil organic matter percentage (use ½ lb only where soil pH is less than 7.5 and weed pressure is heavy). The ½ lb rate of Sencor® DF 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® DF at full rates recommended in the table above, but note that crop injury may occur on soils having a calcarious surface area or a pH of 7.5 or higher.

SPECIAL PRECAUTIONS (Sencor® DF 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.
- Do not rotate any crop not listed on this label for 18 months after the tank mix application.
- In the Central United States, do not plant sorghum or oats for 12 months where the tank-mix has been used unless 20 inches total water was used to produce the crop. If less than 20 inches of irrigation and/or rainfall (total) 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® DF PLUS DUAL®

Sencor® DF 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® DF as directed on this label for use on soybeans.

SENCOR® DF 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.

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Apply Sencor® DF 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.

Preemergence Application: Dry weather following preemergence application of Sencor® DF 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.

Mixing Instructions: Refer to the “General Information” section in the front of this label.

Mixing Instructions: Refer to the “General Information” section in the front of this label. For information on applying Sencor® DF in fluid or dry fertilizer refer to the “Application Of Sencor® DF In Fluid Fertilizers” or “Commercial Impregnation And Application Of Sencor® DF On Dry Bulk Fertilizer” under the “General Information” section in the front of this label.

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*.

Sencor® DF plus Prowl® is not recommended for use on soils with less 2% organic matter in the coastal plain of New Jersey or the Delmarva Peninsula.
SPECIAL PRECAUTIONS (Sencor® DF plus Command® 4EC):

1. Do not rotate to wheat, barley, 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 rotate any crop not listed on this label for 18 months following application of Sencor® DF.

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

3. Do not apply aerially or through irrigation equipment.

SPECIAL PRECAUTIONS (Sencor® DF plus Lasso®):

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

PREPLANT INCORPORATED:

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

Do not use Sencor® DF plus Lasso® on coarse soils with less than 1% organic matter.

1. Do not use Sencor® DF plus Lasso® on sand or loamy sand soils with less than 2% organic matter.

2. Do not use Sencor® DF plus Lasso® on sand or loamy sand soils with less than 2% organic matter.

SPECIAL PRECAUTIONS (Sencor® DF plus Lasso®):

1. Do not rotate to wheat, barley, 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 rotate any crop not listed on this label for 18 months following application of Sencor® DF.

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

3. Do not apply aerially or through irrigation equipment.

SPECIAL PRECAUTIONS (Sencor® DF plus Command® 4EC):

1. Do not rotate to wheat, barley, 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 rotate any crop not listed on this label for 18 months following application of Sencor® DF.

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

3. Do not apply aerially or through irrigation equipment.

RESTRICTIONS AND LIMITATIONS:

1. Do not apply aerosol or through irrigation equipment.

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

3. Do not rotate to wheat, barley, 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 rotate any crop not listed on this label for 18 months following application of Sencor® DF.

4. Do not use Sencor® DF plus Lasso® on sand or loamy sand soils with less than 2% organic matter.

5. Do not use Sencor® DF plus Lasso® on sand or loamy sand soils with less than 2% organic matter.

SPECIAL PRECAUTIONS (Sencor® DF plus Lasso®):

1. Do not use Sencor® DF plus Lasso® on sand or loamy sand soils with less than 2% organic matter.

2. Do not use Sencor® DF plus Lasso® on sand or loamy sand soils with less than 2% organic matter.

SPECIAL PRECAUTIONS (Sencor® DF plus Command® 4EC):

1. Do not rotate to wheat, barley, 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 rotate any crop not listed on this label for 18 months following application of Sencor® DF.

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

3. Do not apply aerially or through irrigation equipment.

SPECIAL PRECAUTIONS (Sencor® DF plus Command® 4EC):

1. Do not rotate to wheat, barley, 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 rotate any crop not listed on this label for 18 months following application of Sencor® DF.

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

3. Do not apply aerially or through irrigation equipment.

RESTRICTIONS AND LIMITATIONS:

1. Do not apply aerosol or through irrigation equipment.

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

3. Do not rotate to wheat, barley, 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 rotate any crop not listed on this label for 18 months following application of Sencor® DF.

4. Do not use Sencor® DF plus Lasso® on sand or loamy sand soils with less than 2% organic matter.

5. Do not use Sencor® DF plus Lasso® on sand or loamy sand soils with less than 2% organic matter.
UPDATES AVAILABLE AT WWW.GREENBOOK.NET

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

Tank mix combinations which include Dual®, Lasso® or Prowl® can be applied emergent 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:

PRODUCT
Sencor® DF Plus Canopy® 75 DF Plus A Grass Herbicide (Broadcast Rates)

ANNUAL BROADLEAVES

Bristly Sturbar
Kochia
Shepherdspurse
Carpetweed
Lambquarters
Sicklepod
Copperleaf, Hophorn-beam
Pigweeds
Smartweed
Florida Beggarweed
Purslane
Spurred Anoda
Florida Pusley
Ragweed, Common
Velvetleaf
Galinsoga
Redweed
Venice mallow
Jimsonweed
Russian Thistle
Knotweed
Sesbania

ANNUAL GRASSES
Barnyardgrass
Crabgrass
Johnsongrass (seedling)
Bluegrass
Crowfootgrass
Panicum, Fall
Broadleaf signalgrass
Foxtails
Witchgrass
Browntop Millet
Goosgrass

Sencor® DF and Command® 4EC plus Treflan®, Lasso®, Dual®, Prowl® or Sonalan® will provide suppression (reduce the competition) of cocklebur and sunflower.

RECOMMENDED APPLICATIONS
Sencor® DF Plus Canopy® 4EC Plus A Grass Herbicide (Broadcast Rates)

RECOMMENDED APPLICATIONS
Sencor® DF Plus Command® 4EC Tank Mix Preplant Incorporated Application (Broadcast Rates)

ANNUAL BROADLEAVES

Bristly Sturbar
Kochia
Shepherdspurse
Carpetweed
Lambquarters
Sicklepod
Copperleaf, Hophorn-beam
Pigweeds
Smartweed
Florida Beggarweed
Purslane
Spurred Anoda
Florida Pusley
Ragweed, Common
Velvetleaf
Galinsoga
Redweed
Venice mallow
Jimsonweed
Russian Thistle
Knotweed
Sesbania

ANNUAL GRASSES
Barnyardgrass
Crabgrass
Johnsongrass (seedling)
Bluegrass
Crowfootgrass
Panicum, Fall
Broadleaf signalgrass
Foxtails
Witchgrass
Browntop Millet
Goosgrass

Sencor® DF and Command® 4EC plus Treflan®, Lasso®, Dual®, Prowl® or Sonalan® will provide suppression (reduce the competition) of cocklebur and sunflower.

RECOMMENDED APPLICATIONS
Sencor® DF Plus Command® 4EC Plus A Grass Herbicide (Broadcast Rates)
1 Refer to “Soil Texture” paragraph on this label for specific soil classification. On course
  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.

2 The higher rate of Sencor® DF is recommended for the control of siccledope and hemp
  sesbania. Use the lower rate of Sencor® DF 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.

3 Higher rate is recommended under moderate to heavy weed infestations.

SENCOR® PLUS SCEPTER PLUS A GRASS HERBICIDE
Sencor® DF 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® DF and Scepter® plus Treflan® or Sonalan® may be applied preplant incorporated broadcast. Sencor® DF and Scepter®
plus Lasso®, Dual® or Prowl® may be applied preplant incorporated, preemergence broadcast, or in a band application.

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

SPECIAL PRECAUTIONS (Sencor®)
Do not use 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.

HIGHER RATE RECOMMENDATIONS
Revised: 6/30/1999

SOIL TEXTURE
1⁄₄
1⁄₂
2
2
³⁄₄
1⁄₄
1⁄₂
2
³⁄₄
1⁄₄
1⁄₂
2
³⁄₄
1⁄₄
1⁄₂
2
³⁄₄

NA

PRODUC

RECOMMENDED APPLICATIONS
Sencor® DF Plus Pursuit® and a Grass Herbicide®

<table>
<thead>
<tr>
<th>SOIL TEXTURE</th>
<th>Sencor® DF (Lb/Acre)</th>
<th>Pursuit® (Oz/Acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COARSE</td>
<td>1/4</td>
<td>4</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>3/4 to 3/4</td>
<td>4</td>
</tr>
<tr>
<td>FINE</td>
<td>3/4 to 3/4</td>
<td>4</td>
</tr>
</tbody>
</table>

* For control of grass weeds, include Dual®, Lasso®, Prowl®, Sonalan® or Treflan® at label rates in the tank mix with Sencor® DF 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 onto 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.
• Observe all cautions and limitations on the labeling of all products used in mix-
  tures.

SENCOR® PLUS PURSUIT® PLUS HERBICIDE
Sencor® DF may be tank mixed with Pursuit® Plus herbicide for broadcast
preemergence or preplant incorporated application to soybeans for control of cer-
tain broadleaf and grass weeds. Refer to the Pursuit® Plus herbicide label for addi-
tional 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® DF.

SPECIAL PRECAUTIONS (Sencor®): For additional precautions, restrictions, limitations, and sprayer clean-up in-
formation, 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® DF herbicide is recommended alone or in combination with Treflan®, Lasso® or Dual® 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® or Dual® label for specific directions for use, recommendations, restrictions and additional weeds not specified on this label.

Mixing: Refer to the “General Information” section in the front of this label.
SPECIAL PRECAUTIONS:
- Do not apply on soils having less than 1% organic matter.
- Do not apply on coarse textured soils with less than 1.5% organic matter.
- Do not use under high weed pressures and/or on soils higher in organic matter.

FIELD CROP WITH OTHER HERBICIDES: Sencor® DF 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® DF is also recommended for use as a preemergence application in combination with Lasso® or Dual®.

FOR USE IN COARSE (LIGHT) SOILS

<table>
<thead>
<tr>
<th>SOIL TEXTURE</th>
<th>COMBINATION PRODUCT/ACRE</th>
<th>SENCOR® DF PLUS TANK MIX PARTNER BURNDOWN RATES—FIELD CORN OR SOYBEANS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COARSE (LIGHT) SOILS</td>
<td>SENCOR® DF</td>
<td>2 to 5/0 oz/A*</td>
</tr>
<tr>
<td>Sand®, Loamy sand, Sandy loam</td>
<td>Preplant Incorporated</td>
<td>12 to 24 fl oz/A</td>
</tr>
<tr>
<td></td>
<td>Treflan® 4EC</td>
<td>2 to 4 lb ai/A</td>
</tr>
<tr>
<td></td>
<td>1 pt</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Preemergence</td>
<td>10 to 30 days</td>
</tr>
<tr>
<td></td>
<td>Lasso® 4E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/2 to 2 qt</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dual® 8E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1/2 to 1 1/2 pt</td>
<td></td>
</tr>
</tbody>
</table>

1 Not recommended for use on sand with less than 1% organic matter.
2 Use the higher rate under heavy weed pressures and/or on soils higher in organic matter.

SPECIAL PRECAUTIONS:
- Do not apply on sand with less than 1% organic matter.
- Use the higher rate under heavy weed pressures and/or on soils higher in organic matter.

Do not apply on coarse textured soils with less than 1.5% organic matter.
- Do not apply more than 4 oz of Sencor® DF per acre on soils with less than 2% organic matter.
- Do not apply on soils having pH 7.0 or greater.
### WEEDS CONTROLLED BY BURNDOWN RATES OF SENCOR® DF

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>RATE</th>
<th>DIRECTIONS AND REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sencor® DF + 2,4-D LVE</td>
<td>2 to 5½ oz/A</td>
<td>For this mix follow the planting restrictions under the Directions and Remarks Section above for Sencor® DF + 2,4-D LVE. The 8 and 12 fl oz of rate of Sencor® DF + 2,4-D LVE will control certain grasses up to 2 and 3 inches in height, respectively. Include either crop oil concentrate at the rate of 1 gallon per 100 gallons of spray solution (1% v/v) or Dash HC at 1 pint per acre. Refer to the Sencor® DF label for additional information.</td>
</tr>
<tr>
<td>Poast®</td>
<td>8 to 16 fl oz/A</td>
<td>+</td>
</tr>
<tr>
<td>2,4-D LVE</td>
<td>¼ to 1 lb ai/A</td>
<td>+</td>
</tr>
</tbody>
</table>

### WEEDS CONTROLLED

<table>
<thead>
<tr>
<th>WEEDS CONTROLLED</th>
<th>2,4-D LVE</th>
<th>Peost Plus® + 2,4-D LVE</th>
<th>Select® + 2,4-D LVE</th>
<th>Fusion® + 2,4-D LVE</th>
<th>Roundup®/Roundup Ultra®/Touchdown® + 2,4-D LVE</th>
<th>Gramoxone Extra®</th>
<th>Gramoxone Extra® + 2,4-D LVE</th>
<th>2,4-DB®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>6</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Barnyardgrass</td>
<td>2 to 3</td>
<td>3 to 4</td>
<td>—</td>
<td>6</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Crabgrass spp.</td>
<td>2 to 3</td>
<td>—</td>
<td>—</td>
<td>6</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Foxtail spp.</td>
<td>2 to 3</td>
<td>3 to 4</td>
<td>2 to 6</td>
<td>8</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Johnsongrass, seedling</td>
<td>2 to 3</td>
<td>3 to 4</td>
<td>2 to 6</td>
<td>8</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panicle, fall</td>
<td>2 to 3</td>
<td>3</td>
<td>2 to 6</td>
<td>6</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Sandbur, field</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>8</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Shattercane</td>
<td>2 to 3</td>
<td>—</td>
<td>—</td>
<td>8</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Wheat, volunteer</td>
<td>2 to 3</td>
<td>—</td>
<td>—</td>
<td>6</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Witchgrass</td>
<td>2 to 3</td>
<td>—</td>
<td>—</td>
<td>6</td>
<td>4 to 6</td>
<td></td>
<td></td>
<td>—</td>
</tr>
</tbody>
</table>

**Sencor® DF** in tank mixtures with the above herbicides will provide burndown control of the weeds listed below.

**Residual Weed Control**

Sencor® DF burndown programs can be used as part of a full season weed control program in both field corn and soybeans when, 1) applied as a tank mixture with residual herbicides, or 2) followed with a postemergence weed control program, which is registered for use on that crop. For residual control, Sencor® DF burndown programs may include tank mixes with the following herbicides or combination of herbicides:

**Field Corn**

- Alachlor
- Atrazine
- Banvel
- Bicep
- Bicep II
- Bicep Lite
- Bladex

**Soybeans**

- Alachlor
- Atrazine
- Banvel
- Bicep
- Bicep II
- Bicep Lite
- Bladex

- Linuron
- Lariat
- Lorox
- Pursuit
- Purplus
- Ramrod
- Ramrod/Corrigan
- Ramrod/Atrazine
- Prowl
- Simazine

- Alachlor
- Atrazine
- Banvel
- Bicep
- Bicep II
- Bicep Lite
- Bladex

- Linuron
- Lariat
- Lorox
- Pursuit
- Purplus
- Ramrod
- Ramrod/Corrigan
- Ramrod/Atrazine
- Prowl

Sencor® DF used (alone and in tank mixes) on soybeans at higher labeled rates than those listed for burndown weed control will also provide residual control of those weeds listed below.
in the “Weeds Controlled by Sencor® DF and Sencor® DF Tank mix Combinations” section of the Sencor® DF label.

Refer to the individual product labels for additional information, precautions, and limitations.

SOthern and southeastern states Only

POSTEMERGENCE Direded spray applications

Sencor® DF 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® DF can be applied to soybeans in addition to a preemergence or preplant application of Sencor® herbicide according to label directions.

WeedS controlled: Sencor® DF 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:

- **¾ lb/Acre**
  - Carpetweed (Mollugo verticillata)
  - Cocklebur (Xanthium pennsylvanicum)
  - Crabgrass (Digitaria spp)
  - Dayflower (Convolvula arvensis)

- **½ to ¾ lb/Acre**
  - Prickly/sida/Teaweed (Sida spinosa)
  - Sesbania (Sesbania spp)

**½ lb/Acre**

Ragweed, common (Ambrosia artemisiifolia)

At the rate of ½ lb/acre morning glory species, (Ipomoea spp.) horse nettle, (Solanum spp.) Florida pusley, (Richardia scabra) spotted spurge (Euphorbia maculata) and wild poinsettia (Euphorbia heterophylla) are suppressed when Sencor® DF is applied before these weeds are 3 inches tall. The ½ lb/acre rate will suppress broadleaf signalgrass (Brachiaria platyphylla) up to 1 inch tall.

Sencor®DF postemergence directed spray

<table>
<thead>
<tr>
<th>CROP</th>
<th>Sencor® DF Lb/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybeans (Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee and Texas)</td>
<td>½ to ¾ (Broadcast Basis)</td>
</tr>
</tbody>
</table>

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 better weed crops 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. Apply 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® DF for a band application see “Banded Application” under the “General Information” section in the front of this label. If necessary, a second postemergence directed spray application can be made after 7 days. 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 contact more than ¼ inch of water per acre (¼ to ½ inch on sandy soil) as a continuous injection in self-propelled systems or apply in the last 15 to 30 minutes of the set in other systems. Be sure all the Sencor® DF has been flushed from the lines before shutting down the system.

**Weeds controlled: Sencor® DF applied postemergence to soybeans according to directions, will provide economic control of the following weeds. For optimum control, applications should be made before weeds are 1 inch tall.** (See NOTE)

**BROADLEAVES**

- Carpetweed, common
- Cocklebur, common
- Kochia
- Lambsquarters, common
- Mustard, Indian

**GRASSES**

- Barnyardgrass
- Crabgrass, large
- Crabgrass, smooth

**NOTE:** Where triazine-resistant weeds are present, Sencor® DF alone may not provide adequate control.

**Recommended broadcast applications**

**CROP** | **Sencor® DF (lb/acre)**
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Potatoes</td>
<td>1/2 to 3</td>
</tr>
</tbody>
</table>
| **PREEMERGENCE:** Apply specified dosage as a broadcast spray. Do not mechanically incorporate into soil. Use the ½ to ¾ lb/acre rate for control of wild mustard (Brassica sp.) only. On sand soils or sensitive varieties, do not exceed ¾ lb/acre.

**IDaho, Oregon and Washington only:** Two postemergence applications can be made as broadcast sprays over the tops of potato plants. Refer to Special Precautions (Potatoes). Use rates of ½ to ¾ lb/acre for control of redroot pigweed and common lambsquarters only. Apply the ¾ lb/acre rate for control of other weeds listed on this label.

**SPLIT APPLICATIONS:** This product may be applied once preemergence and once postemergence as directed above [Refer to Special Precautions (Potatoes)]. Do not exceed 1 lb/total per acre per season.

**TANK MIXES:** Sencor® DF may be tank mixed with the following herbicides: Dual®/Dual® II, Eptan® and Prowl® 3.3 EC and Matrix®. In addition, three-way tank combinations may be used for Sencor® DF plus Dual®/Dual® II, Eptan® and Prowl® 3.3 EC plus Matrix® when applied preemergence. Refer to each product’s label for precautionary statements, restrictions, application information and weeds controlled.

**TANK MIXES**

- Dual®/Dual® II: Sencor® DF may be applied in a tank mix combination with Dual®/Dual® II as a preemergence broadcast application. Apply Sencor® DF at ½ to 1½ lbs and Dual®/Dual® II at 1 to 1½ pints per acre. Use a nonionic surfactant at a rate of 0.125% v/v (1 pt/100 gallon of water). Apply before the crop exceeds 14 inches in height. Postemergence applications of Matrix® treatments should be made prior to June 30.

**Matrix® (except the following counties in Colorado: Almason, Conejos, Costilla, Rio Grande and Sanguiache): Sencor® DF may be applied in tank mix combination with Matrix® as a preemergence and/or early postemergence application for improved control on weeds such as Russian thistle, kochia and common lambsquarters. As a preemergence mix, apply Sencor® DF at 1 to 4 lb and Matrix® at 1 to 2 oz per acre. As an early postemergence spray, apply Sencor® DF at 1 to 3 oz and Matrix® at 1 to ½ oz per acre. Use a nonionic surfactant at a rate of 0.25% v/v (1 pt/100 gallon of water). Apply before the crop exceeds 14 inches in height. Postemergence applications of Matrix® treatments should be made prior to June 30.
SPECIAL PRECAUTIONS (Potatoes):
- Do not use Sencor® DF on potatoes in Kern County, California.
- Do not apply more than a total of 1½ lbs Sencor® DF per acre in a single crop season regardless of the method of application.
- Do not make postemergence applications prior to rainfall or irrigation on recently cultivated potatoes, nor within 3 days after periods of cool, wet cloudy weather or injury may occur.
- Postemergence applications may cause some chlorosis or minor necrosis. These symptoms may be more severe if seed-piece decay is occurring or if growing conditions favor crop stress.
- Postemergence applications may be made only on russet or white skinned varieties that are not early maturing.
- Potato varieties may vary in their response to herbicide applications. When using Sencor® DF for the first time on a particular variety, always determine crop tolerance before using on a field scale.
- Do not apply Sencor® DF within 60 days of harvest.
- Do not use air blast sprayers.
- Do not apply to sweet potatoes or yams.
- Do not rotate any crop not listed on this label for 18 months following application of Sencor® DF.

Do not plant sensitive crops such as onions, lettuce, cole crops and cucurbits during the next growing season following Sencor® DF application.

Certain cereal varieties are sensitive to Sencor® DF (see cereal section of this label for sensitive varieties) and should not be planted during the next growing season unless the following cultural practices occur:
1. Potato vines left in rows as a result of harvest must be uniformly distributed over the soil surface prior to plowing and.
2. Plow with a moldboard plow to a depth sufficient to mix the upper 8 inches of soil.

ALFALFA and SAINFOIN
Sencor® herbicide is labeled for use in alfalfa and saffoin in the following areas:
1. Alfalfa and saffoin (Including mixed stands with grasses) (all areas except California).
2. Alfalfa and saffoin (Including mixed stands with grasses) (California only).
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).
5. Alfalfa—Non-Dormant, Non-Winter Hardy varieties (Arizona only).

Sencor® DF is recommended for use in aerial or ground spray equipment as a broadcast surface application to established crops of alfalfa and saffoin 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® DF in fluid or on dry fertilizer refer to the “Application of Sencor® DF in Fluid Fertilizers” or “Commercial Impregnation And Application Of Sencor® DF On Dry Bulk Fertilizer” under the “General Information” section of this label.

SPECIAL PRECAUTIONS:
- Use Sencor® DF only on established alfalfa and saffoin. Do not apply Sencor® DF 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® DF 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® DF.

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 ½ inch of water in the first irrigation after Sencor® DF is applied.

ALFALFA and SAINFOIN
WEEDS CONTROLLED (Except California)
½ to ¾ Lb Sencor® DF/Acre
Chickweed, Common (Stellaria media)
Cheatgrass (downy brome) (Bromus secalinus)
Cheatgrass (Bromus secalinus)

ALFALFA and SAINFOIN
RECOMMENDED BROADCAST APPLICATIONS

<table>
<thead>
<tr>
<th>CROP</th>
<th>Sencor® DF Lb/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa and Sainfoin (All Areas Except California)</td>
<td></td>
</tr>
<tr>
<td>Alfalfa and Sainfoin (Excerpt California)</td>
<td></td>
</tr>
<tr>
<td>alfalfa and sowthistle</td>
<td>½ to 1½</td>
</tr>
</tbody>
</table>
BROADLEAVES

Dandelion (Taraxacum officinale)

GRASSES

Barnyardgrass (Echinochloa crus-galli) Bluegrass Foxtail Barley (Hordeum jubatum)

RECOMMENDED BROADCAST APPLICATIONS

<table>
<thead>
<tr>
<th>CROP</th>
<th>Sencor® DF Lb/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa</td>
<td>1/8 to 1/2</td>
</tr>
<tr>
<td>Sainfoin (California Only)</td>
<td>3/4 to 1</td>
</tr>
</tbody>
</table>

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 1 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 saionfoin. Injury may occur to alfalfa if Sencor® DF 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.

At the 1/4 lb/acre rate, Sencor® DF may be used for suppression of curly dock.

FOR USE ON MIXED STANDS OF ALFALFA AND GRASSES:

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® DF PLUS Gramoxone Extra® Tank Mix


APPLICATION:

Sencor® DF plus Gramoxone Extra® tank mix application is recommended for use, during the dormant season, in aerial or ground spray equipment as a broadcast surface application to established (at least 1 year old) alfalfa for the control of certain grass and broadleaf weeds. Do not apply Sencor® DF/Gramoxone Extra® tank mix to regrowth (after grazing or cutting) 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. Use a nonionic spreader at label rates to the spray solution.

WEEDS CONTROLLED:

Sencor® DF plus Gramoxone Extra (1/3 to 1/2 pt/acre) tank mix application will control established weeds. Gramoxone controls weeds by contact activity.

1/2 to 1 Lb of Sencor® DF Per Acre

Use Sencor® DF at 3/4 to 1 Lb/Acre for control of the following weeds:

<table>
<thead>
<tr>
<th>Blue mustard</th>
<th>Marestail (Horseweed)</th>
<th>Sow thistle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common lambsquarters</td>
<td>Meadow salsify</td>
<td>Tansy mustard</td>
</tr>
<tr>
<td>Flxweed</td>
<td>Pepperweed</td>
<td>White cockle</td>
</tr>
<tr>
<td>Green foxtail</td>
<td>Prickly lettuce</td>
<td>Wild oats</td>
</tr>
<tr>
<td>Groundsel</td>
<td>Redroot pigweed</td>
<td>Wild buckwheat</td>
</tr>
<tr>
<td>Jim Hill mustard</td>
<td>Rough fleabane</td>
<td>Yellow rocket</td>
</tr>
<tr>
<td>Kochia</td>
<td>Ryegrass</td>
<td></td>
</tr>
<tr>
<td>Little barley</td>
<td>Smooth brome</td>
<td></td>
</tr>
</tbody>
</table>

SPECIAL PRECAUTIONS:

- Maintain continuous mechanical agitation in the spray tank to insure a uniform spray mixture.
- 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 drift especially in areas where wheat is growing on coarse textured soils in adjacent fields, or injury may occur.

ESTABLISHED PERENNIAL GRASSES GROWN FOR SEED

For Weed Control in Established Perennial Bentgrass Grown for Seed in Oregon West of the Cascade Mountains and in Crook, Deschutes, and Wasco Counties

Used as directed below, Sencor® DF will reduce competition from seedlings of annual Bromus species, annual ryegrass, and annual bluegrass. Sencor® DF will control rattleweed, henbit, birdfoot, birdfoot speedwell, chickweed, mustards, and shepherdspurse.

Crop Tolerance: Crop tolerance is marginal, and crop injury and yield reduction are possible. To minimize crop injury, apply when the crop is not under stress. Use of adjuvants will reduce crop tolerance. Making the application after three consecutive sunny days will reduce potential for crop injury.

APPLICATION INSTRUCTIONS

DOSE/acre

<table>
<thead>
<tr>
<th>Crop</th>
<th>Rate of Sencor® DF (lb/a)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bentgrass grown for seed</td>
<td>0.38 to 0.5</td>
<td></td>
</tr>
</tbody>
</table>

Apply specified dosage as a broadcast spray in at least 15 gallons of spray solution per acre when volunteer grasses are in the 1 to 2 leaf growth stage following fall rainfall or irrigation and before active spring growth. Applications made after mid-February may result in excessive crop injury and/or failure to control weeds.

Allow at least 120 days between application and harvest for seed.

APPLICATION RESTRICTIONS:

1) Apply only to established bengtgrass that is at least one year old and has been harvested for seed at least once.

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® DF 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 West Virginia. Apply at 1/2 to 1 lb 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.

ALFALFA

Non-Dormant, Non-Winter Hardy Varieties (Arizona Only)

Sencor® DF is recommended as a broadcast surface application to established crops of non-dormant alfalfa varieties for preemergence and postemergence control of certain winter annual weeds following either a fall or winter sheep grazing/green-chop harvest.

WEEDS CONTROLLED:

Field pepperweed (Lolium multiflorum) London rocket (mustard) Shepherds purse

Lambquarters (Chenopodium album) Prickly lettuce (Lactuca serriola) Silversheath knotweed (Polygonum aviculare)

Little mallow (Malva moschata) Mouse barley (Echinochloa crus-galli) Spiny sowthistle

Littleseed canarygrass (Phalaris arundinacea) Nettleleaf goosefoot (Chenopodium album)

RECOMMENDED APPLICATIONS

<table>
<thead>
<tr>
<th>CROP</th>
<th>Rate of Sencor® DF (lb/a)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa</td>
<td>1/3 to 9/4</td>
<td></td>
</tr>
</tbody>
</table>

Apply specified dosage by aerial or ground spray equipment in 7 to 40 gallons of water per acre. Treat established alfalfa stubble after fall or winter sheep grazing or green-chop harvest and prior to the time regrowth is 2" tall. Alfalfa foliage present at time of application can exhibit yellowing. Injury may occur to alfalfa in areas of high salt concentration where the crop is sited and/or has a poorly developed root system, or if alfalfa is under stressed growing conditions such as diseases, insect infestations, or drought. For most effective postemergence weed control, treatment should be made before weeds are 2" tall or before rosettes are 2" wide. For maximum control, rainfall (1/4" or more) or irrigation is necessary within 30 days of treatment; however, do not irrigate within 2 days after treatment. Use 1/3 to 2 lb Sencor® DF per acre on sand soils so as to ensure uniform coverage of the weed seeds. Do not use on sand soil.

Do not apply with aerial spray equipment when wind speed is greater than 10 mph.

Do not use Sencor® DF on seed at least once.

Do not harvest or graze treated alfalfa for 60 days after application.
2) Do not apply to a crop that is under stress (i.e., severe insect damage, cool to cold temperatures, disease, nutrient deficiency or deficient or excessive moisture).
3) Do not tank mix with other herbicides.
4) Do not apply more than once per year.
5) Apply only to Colonial and Creeping Bentgrass.

**Feeding Restrictions:** The crop and crop residues may be fed to livestock or used as bedding. If the seed crop is terminated and grazed or cut for forage, allow at least 28 days between application and use as animal feed.

**For Weed Control in Established Perennial Grasses Grown for Seed in Oregon West of the Cascade Mountains and in Crook, Deschutes, Jefferson, and Wasco Counties**

Used as directed below, Sencor® DF will reduce competition from volunteer seedlings of the indicated crop, annual Bromus species, annual ryegrass, and annual bluegrass. Sencor® will control rattlefescue, henbit, ivyleaf speedwell, chickweed, mustards, and shepherdspurse. Control of the volunteer crop and grassy weeds may be enhanced by adding wetting agents containing crop oil. Follow the directions for use and rates recommended on the wetting agent label.

**APPLICATION INSTRUCTIONS**

<table>
<thead>
<tr>
<th>CROP</th>
<th>RATE OF SENCOR® DF (lbs/A)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perennial Ryegrass</td>
<td>0.3 to 0.75</td>
<td>Apply specified dosage as a broadcast spray in at least 15 gallons of spray solution per acre when volunteer grasses are in the 1 to 2 leaf growth stage following full rainfall or irrigation and before active spring growth. Applications made after mid-February may result in excessive crop injury and/or failure to control weeds.</td>
</tr>
<tr>
<td>Tall Fescue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bluegrass</td>
<td>0.3 to 0.5</td>
<td>Allow at least 120 days between application and harvest for seed.</td>
</tr>
<tr>
<td>Fine Fescue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orchardgrass</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application Restrictions:**
1) Apply only to established grasses that are at least one year old and have been harvested for seed at least once.
2) Do not apply to a crop that is under stress (i.e., severe insect damage, cool to cold temperatures, disease, nutrient deficiency or deficient or excessive moisture).
3) Do not apply more than once per year.
4) Do not apply this product through any type of irrigation system.

**For Weed Control in Established Perennial Grasses Grown for Seed in Montana and Wyoming**

Used as directed below, Sencor® DF will reduce competition from downy brome (Bromus tectorum). Control of the grassy weeds may be enhanced by adding wetting agents containing crop oil.

**APPLICATION INSTRUCTIONS**

<table>
<thead>
<tr>
<th>CROP</th>
<th>RATE OF SENCOR® DF (lbs/A)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluegrass</td>
<td>0.1875 to 0.375</td>
<td>Apply specified dosage as a broadcast spray in at least 15 gallons of spray solution per acre when volunteer grasses are in the 1 to 2 leaf growth stage following full rainfall or irrigation and before active spring growth. Allow at least 120 days between application and harvest for seed.</td>
</tr>
<tr>
<td>Meadow Brome</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application Restrictions:**
1) Apply only to established grasses that are at least one year old and have been harvested for seed at least once.
2) Do not apply to a crop that is under stress, for example disease, severe insect damage, nutrient deficiency, cool to cold temperatures or deficient or excessive moisture.
3) Do not apply more than once per year.
4) Do not apply this product through any type of irrigation system.

**For Weed Control in Established Perennial Bluegrass Grown for Seed in Idaho**

Used as directed below, Sencor® DF will reduce competition from volunteer seedlings of the indicated crop, annual Bromus species, annual ryegrass, and annual bluegrass. Sencor® DF will control rattlefescue, henbit, ivyleaf speedwell, chickweed, mustards, and shepherdspurse. Control of the volunteer crop and grassy weeds may be enhanced by adding wetting agents containing crop oil. Follow the directions for use and rates recommended on the wetting agent label.

**APPLICATION INSTRUCTIONS**

<table>
<thead>
<tr>
<th>CROP</th>
<th>RATE OF SENCOR® DF (lbs/A)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluegrass</td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td>Meadow Brome</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application Restrictions:**
1) Apply only to established grasses that are at least one year old and have been harvested for seed at least once.
2) Do not apply to a crop that is under stress, for example disease, severe insect damage, nutrient deficiency, cool to cold temperatures or deficient or excessive moisture.
3) Do not apply more than once per year.
4) Do not apply this product through any type of irrigation system.

**Feeding Restrictions:** The crop and crop residues may be fed to livestock or used as bedding. If the seed crop is terminated and grazed or cut for forage, allow at least 28 days between application and use as animal feed.

**For Weed Control in Established Perennial Grasses Grown for Seed in Montana and Wyoming**

Used as directed below, Sencor® DF will reduce competition from downy brome (Bromus tectorum). Control of the grassy weeds may be enhanced by adding wetting agents containing crop oil.

**APPLICATION INSTRUCTIONS**

<table>
<thead>
<tr>
<th>CROP</th>
<th>RATE OF SENCOR® DF (lbs/A)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluegrass</td>
<td>0.1875 to 0.375</td>
<td>Apply specified dosage as a broadcast spray in at least 15 gallons of spray solution per acre when volunteer grasses are in the 1 to 2 leaf growth stage following full rainfall or irrigation and before active spring growth. Allow at least 120 days between application and harvest for seed.</td>
</tr>
<tr>
<td>Meadow Brome</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application Restrictions:**
1) Apply only to established grasses that are at least one year old and have been harvested for seed at least once.
2) Do not apply to a crop that is under stress, for example disease, severe insect damage, nutrient deficiency, cool to cold temperatures or deficient or excessive moisture.
3) Do not apply more than once per year.
4) Do not apply this product through any type of irrigation system.

**Feeding Restrictions:** The crop and crop residues may be fed to livestock or used as bedding. If the seed crop is terminated and grazed or cut for forage, allow at least 28 days between application and use as animal feed.
ASPARAGUS (Established)

Sencor® DF is recommended for use in 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® DF, applied to established asparagus according to directions, will effectively control:

- Crabgrass (Digitaria spp.)
- Crabgrass (Digitaria sanguinalis)
- Foxtails (Setaria spp.)
- Pigweed, Redroot (Amaranthus retroflexus)
- Pigweed, Smooth (A. hybridus)
- Ragweed, Common (Ambrosia artemisiifolia)
- Redtop, Red (Rumex acetosella)
- Sorrel, Red (R. sanguineus)
- Smartweed, Pennsylvania (Polygonum pensylvanicum)
- Velvetleaf (Abutilon theophrasti)
- Shepherdspurse (Capsella bursa-pastoris)

PEREEMERGENCE APPLICATION ONLY: Make a single surface application in early spring before asparagus spears or ferns emerge. If the field is to be disked, apply Sencor® DF 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.

SPLIT APPLICATION: PREEMERGENCE AND POST HARVEST: Apply after last harvest of the season but prior to emergence. 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.

IMPORTANT: The total amount of Sencor® DF applied in one crop season may not exceed 2% lb/acre.

SPECIAL PRECAUTIONS: (Asparagus)
- Do not use on newly seeded asparagus nor on young plants during the first growing season after setting crops.
- 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® DF 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 to 6 true leaves. Earlier applications will result in excessive crop damage.
- Crop injury or delayed maturity may result from applications of Sencor® DF if carrots are growing under stress conditions such as periods of drought or cool, wet and cloudy weather preceding application.
- Follow an application of Sencor® DF, chlorosis (yellowing) and burning of the leaf tissue may occur.
- For newly introduced varieties of carrots with unknown tolerance to Sencor® DF, treat only a small area to determine if Sencor® can be used without injury to the crop.

FIELDCORN

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

- 2,4-D®
- Atrazine®
- Banvel®
- Basagran®
- Buctril/Buctril Gel®
- Marksman®
- Scorpin III®
- Tough®
- Resource®
- Pursuit®
- Pursuit®

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

POSTEMERGENCE BROADCAST APPLICATION

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

For tank mixes of Sencor® DF plus atrazine, Basagran®, Laddok S-12, Buctril®, Buctril® + atrazine, Pursuit®, Resource®, Tough®, or 2,4-D® amine formulations, use flat fan nozzles spaced a maximum of 20 inches apart. Best results are achieved using a minimum spray volume of 10 gallons per acre and spray pressure from 20 to 40 psi.

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

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

Aerial Application: Apply in a minimum spray volume of 3 gallons per acre. For optimum spray coverage and distribution, use a minimum of 5 gallons per acre and a maximum pressure of 40 psi. Use a boom and nozzle configuration which will provide a uniform deposition pattern and coverage with low drift potential. Avoid overlaps to prevent potential crop injury. Do not apply near sensitive crops or sensitive plants growing near the treated area. Do not apply when wind speed is greater than 10 mph or when winds are moving toward sensitive crops or plants. To avoid drift hazards, applicant must follow the most restrictive labeling of the product used in a tank mix. Refer to the respective tankmix partner’s label for further precautions and recommendations.

POST DIRECTED APPLICATION

Sencor® DF in tank mix combinations with Banvel®, 2,4-D®, Buctril® or Scorpin® III may be applied post directed to field corn. Use drop nozzles and appropriately sized drop to direct spray below the corn whorl and upper leaves. The top of the target weed canopy must be sufficiently below the whorl and upper leaves of the crop to permit this application and provide adequate spray coverage. The height difference required between the crop and weed canopy will depend on the specific equipment used. Apply before tassel emergence. For further precautions and additional recommendations, refer to the appropriate tankmix partner’s label.
ADJUVANTS
The adjuvant types listed below may be utilized with certain Sencor® DF tank mix combinations. Consult the tank mix recommendations section for the appropriate adjuvant and rate. Use of non-recommended adjuvants or rates may result in severe leaf burn, crop stuntting, and/or stand reduction. Use only adjuvants which are exempt from tolerance requirements under 40 CFR 180.1-001.

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

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

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

DO NOT USE oil concentrate crude oil COC or any adjuvant containing vegetable or petroleum oils with any Sencor® DF tank mixtures as severe leaf burn, crop stuntting, and/or stand reduction may occur.

RAINFASTNESS
Sencor® DF will not reduce rainfastness of the recommended tank mix partners. Refer to the individual product labels for rainfastness recommendations.

SPRAYER CLEANUP
Refer to each tank mix partner’s label and the Sprayer Cleanup section of the Sencor® DF label for specific instructions on cleaning spray equipment. Special attention should be given to the required cleanup procedures for 2,4-D and Atrazine. The most restrictive labeling applies to tank mixes with Sencor® DF. Consult the appropriate tank mix partner's label for additional recommendations or restrictions. The most restrictive labeling applies to tank mixes with Sencor® DF.

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

STRESS is any condition or combination of conditions which impairs normal crop growth. Weather, disease, insect damage, fertility or other factors may cause stress. Applications made before or after the corn is under stress from these factors or from periods of prolonged cool, wet and cloudy weather may result in temporary leaf burn, yellowing and/or stuntting. Recovery from corn damage is generally rapid with lasting effects on new growth. Under extreme stress, stand reduction may occur.

FEEDING RESTRICTIONS: Field corn treated with Sencor® DF may be grazed or harvested for silage or grain 60 days after treatment. Follow the most restrictive preharvest interval on the labels of the products used in the tank mixtures.

TANK MIX COMBINATIONS
The Sencor® DF tank mixes listed below can be utilized for control of certain annual broadleaf weeds.

<table>
<thead>
<tr>
<th>Sencor® DF POSTEMERGENCE BROADCAST RECOMMENDATIONS</th>
<th>PRODUCT</th>
<th>RATE</th>
<th>DIRECTIONS AND REMARKS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sencor® DF + 2,4-D Amine®</td>
<td>2 oz/A</td>
<td>½ to 1 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. Non-ionic surfactant (1 qt/100 gal of spray solution) may be added to improve weed control. Treat with atrazine to enhance control. Agronomists recommend that use be limited to one application per season. All state and federal label recommendations and restrictions pertaining to atrazine applications.</td>
</tr>
<tr>
<td>Sencor® DF + 2,4-D LVE®</td>
<td>2 oz/A</td>
<td>½ to 1 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. A non-ionic surfactant (1 qt/100 gal of spray solution) may be added to improve weed control. Treat with atrazine to enhance control. Agronomists recommend that use be limited to one application per season. All state and federal label recommendations and restrictions pertaining to atrazine applications.</td>
</tr>
<tr>
<td>Sencor® DF + Atrazine®</td>
<td>2 oz/A</td>
<td>½ to 1 ½ lb/a</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. A non-ionic surfactant (1 qt/100 gal of spray solution) may be added to improve weed control. Treat with atrazine to enhance control. Agronomists recommend that use be limited to one application per season. All state and federal label recommendations and restrictions pertaining to atrazine applications.</td>
</tr>
<tr>
<td>Sencor® DF + Banvel®</td>
<td>2 oz/A</td>
<td>½ to 1 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. Results of field tests with this combination are mixed. Consult the Banvel label for use rates and restrictions. Treat with atrazine to enhance control. Agronomists recommend that use be limited to one application per season. All state and federal label recommendations and restrictions pertaining to atrazine applications.</td>
</tr>
<tr>
<td>Sencor® DF + Clarity®</td>
<td>1 oz/A</td>
<td>½ to 1 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. Results of field tests with this combination are mixed. Consult the Clarity label for use rates and restrictions. Treat with atrazine to enhance control. Agronomists recommend that use be limited to one application per season. All state and federal label recommendations and restrictions pertaining to atrazine applications.</td>
</tr>
<tr>
<td>Sencor® DF + Basagran®</td>
<td>2 oz/A</td>
<td>1 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray after emergence but before corn reaches 30 inches in height and the crop canopy cover reaches 30%. Applications such as UAN (0.5 to 1 gal/A), ammonium sulfate (17 lb/100 gal of spray solution), or non-ionic surfactant (1 qt/100 gal of spray solution) may improve weed control.</td>
</tr>
<tr>
<td>Sencor® DF + Buctril®</td>
<td>1 oz/A</td>
<td>½ to 1 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. DO NOT USE ADJUVANTS. Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. Reduction potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.</td>
</tr>
<tr>
<td>Sencor® DF + Buctril® + atrazine (Premix)</td>
<td>1 oz/A</td>
<td>½ to 1 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. DO NOT USE ADJUVANTS. Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. Reduction potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.</td>
</tr>
<tr>
<td>Sencor® DF + Laddik S-12®</td>
<td>2 oz/A</td>
<td>1 ½ pt/A¹⁄₂</td>
<td>Apply as a broadcast spray after emergence until corn is 12 inches tall. DO NOT USE ADJUVANTS. Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. Reduction potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.</td>
</tr>
<tr>
<td>Sencor® DF + Marksman®</td>
<td>2 oz/A</td>
<td>½ to 1 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. DO NOT USE ADJUVANTS. Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. Reduction potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.</td>
</tr>
<tr>
<td>Sencor® DF + Pursuit®</td>
<td>2 oz/A</td>
<td>½ to 1 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. DO NOT USE ADJUVANTS. Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. Reduction potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.</td>
</tr>
<tr>
<td>Sencor® DF + Resource®</td>
<td>3 fl oz/A</td>
<td>½ to 2 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray to field corn from 2 to 16' (visible leaf collar) stage. Applications such as nonionic surfactant (0.25% v/v), UAN (2% w/v) or ammonium sulfate (2.5 lb/A) may increase weed control.</td>
</tr>
<tr>
<td>Sencor® DF + Tough®</td>
<td>2 oz/A</td>
<td>1 1/2 pt/A¹⁄₂</td>
<td>Apply as a broadcast spray during the interval from corn emergence until corn is 12 inches tall. DO NOT USE ADJUVANTS. Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. Reduction potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.</td>
</tr>
</tbody>
</table>

* Consult the appropriate tank mix partner’s label for additional recommendations or restrictions. The most restrictive labeling applies to tank mixes with Sencor® DF.

Application rate is based on, but not restricted to, 4 pounds active ingredient per gallon of 2,4-D•DF.
### WEEDS CONTROLLED—POSTEMERGENCE BROADCAST APPLICATION

These tank mixtures with Sencor® DF will control the following annual weeds up to the maximum weed heights listed:

<table>
<thead>
<tr>
<th>COMMON WEED NAME</th>
<th>Atrazine®</th>
<th>Banvel®/Clarity®</th>
<th>Basagran®</th>
<th>Buctril®/Buctril® + atrazine</th>
<th>2,4-D®</th>
<th>Marksmen®</th>
<th>Pursuit®</th>
<th>Laddek® S-12</th>
<th>Resource®</th>
<th>Tough®</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAXIMUM WEED HEIGHT IN INCHES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amaranth, Palmer</td>
<td>4*</td>
<td>3</td>
<td>2*</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Buckwheat, wild</td>
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<td>2</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>Buffalobur</td>
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<td>4</td>
<td>1</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Burcucumber</td>
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<td>Carpetweed</td>
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<tr>
<td>Cocklebur, common</td>
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<td>Horseweed/marestail</td>
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<td>6</td>
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<tr>
<td>Jimsonweed</td>
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<td>5</td>
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<td>Knotweed</td>
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<td>6</td>
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<tr>
<td>Kochia</td>
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<td>Ladybird</td>
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</tr>
<tr>
<td>Lambsquarters, common</td>
<td>6*</td>
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<td>4</td>
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<td>4</td>
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<tr>
<td>Lettuce, prickly</td>
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<tr>
<td>Mallow, Venice</td>
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<td>Morningglory, ivyleaf</td>
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<tr>
<td>Morningglory, pitted</td>
<td>3</td>
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<td>1</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>Morningglory, tall</td>
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<td>3</td>
<td>3</td>
<td>2</td>
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</tr>
<tr>
<td>Mustard, tansy</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</tr>
<tr>
<td>Mustard, wild</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
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</tr>
<tr>
<td>Nigsshead, black</td>
<td>6</td>
<td>6</td>
<td>1</td>
<td>6</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>4</td>
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</tr>
<tr>
<td>Nigsshead, eastern black</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Pigweed, redroot</td>
<td>6*</td>
<td>6</td>
<td>2*</td>
<td>6*</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Pigweed, smooth</td>
<td>6*</td>
<td>6</td>
<td>2*</td>
<td>6*</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Pooroe</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Purslane, common</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>Pursley, Florida</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<td>3</td>
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</tr>
<tr>
<td>Ragweed, common</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>3</td>
<td>4</td>
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<td>4</td>
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</tr>
<tr>
<td>Ragweed, giant</td>
<td>4</td>
<td>5</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>6</td>
<td>4</td>
<td>4</td>
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</tr>
<tr>
<td>Sicklepod</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Sida, prickly</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Smartweed, Pennsylvania</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
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</tr>
<tr>
<td>Sunflower, common</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Thistle, Russian</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Velvetch</td>
<td>6*</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Waterhemp, spp.</td>
<td>5*</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>4*</td>
<td>5*</td>
<td>5</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

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

** These treatments will not control triazine resistant biotypes.

### PERENNIAL WEED SUPPRESSION

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

### Sencor® DF + Banvel® or Clarity®

- Bindweed, field; Dandelion, common; Dock, curly; Smartweed, swamp; Thistle, Canada.

### Sencor® DF + Buctril® or Buctril® + atrazine

- Thistle, Canada.

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Sencor® DF + 2.4-D LVE®
Bindweed, field; Dandelion, common; Dock, curly; Smartweed, swamp; Thistle, Canada.

Sencor® DF + Marksmans®
Bindweed, field; Dandelion, common; Dock, curly; Smartweed, swamp; Thistle, Canada.

Sencor® DF + Pursuit®
Thistle, Canada.

**PREPLANT AND PREEMERGENCE**
Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, South Dakota and Wisconsin

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

- **Alachlor®** Cycle® Marksmans®
- **Atrazine®** Dual® Pentagon®
- **Banvel®** Dual® II Prowl®
- **Bicep®** Extrazine® II Pursuit® Plus *
- **Bicep® II** Frontiér® Pursuit® *
- **Bicep® Lite** Guardsman® Ramrod®
- **Blades®** Harness® Extra Ramrod®/Atrazine® *
- **Broadstrike® + Dual®** Larat® Simazine® *
- **Broadstrike® Plus** Linex® Surpass®
- **Buller®** Linuron® Surpass® 100
- **Clarity®** Lorox® Topnotch®

* Use only on Pursuit® resistant/tolerant corn hybrids (IMI corn).

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

**SPECIAL PRECAUTIONS**:
- Do not apply more than 5% ounces Sencor® DF (0.25 pound active ingredient) per acre per growing season.
- Do not apply on soils having pH 7.0 or greater.
- Corn seed should be planted a minimum of 1½ inches deep.
- Sencor® DF may only be used in hybrid seed corn production fields if both inbred parents are known to be tolerant to Sencor® DF.
- Not recommended for use on muck soils as reduced weed control may result.
- Observe all precautions and limitations on labeling of all products used in tank mixes.

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

**WEEDS CONTROLLED**: Sencor® DF will aid in the residual preemergence control of the following weed species when tank mixed with other registered grass and/or broadleaf corn herbicides:

- Horseweed/marestail Pigweed spp.
- Ladysthumb Ragweed, common
- Lambsquarters, common Smartsweetcorn, Pennsylvania Water hemp, Tall

* For control of emerged weeds refer to the “Burndown Weed Control” section of the Sencor® label.

**Sencor® DF Field Corn Rate Recommendations**

<table>
<thead>
<tr>
<th>STATES</th>
<th>APPLICATION TIMING</th>
<th>Sencor® DF oz/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iowa</td>
<td>Preplant (0 to 30 days) Preemergence</td>
<td>2 to 5%</td>
</tr>
<tr>
<td>Kansas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Missouri</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nebraska</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Dakota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Illinois</td>
<td>Preplant (10 to 30 days) Preemergence</td>
<td>2 to 5%</td>
</tr>
<tr>
<td>Indiana</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kentucky</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michigan</td>
<td>Preplant (0 to 9 days) Preemergence</td>
<td>2 to 4</td>
</tr>
<tr>
<td>Minnesota</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ohio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wisconsin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS**: Apply as a broadcast spray prior to corn emergence from the soil.

Do not apply Sencor® DF on coarse textured soils with less than 1.5% organic matter. Do not apply more than 4 oz. Sencor® DF per acre on soils with less than 2.0% organic matter. For heavy weed infestations and/or early preplant applications, use the higher rates of Sencor® DF.

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

**SWEET CORN**

**PREPLANT AND PREEMERGENCE APPLICATIONS**
(Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, South Dakota and Wisconsin)

Sencor® DF is recommended for additional residual weed control of certain broadleaf weed species, when applied in combination with other broadleaf and/or grass herbicides as a tank mixture. All products used must be labeled for use on sweetcorn. The most restrictive restrictions and precautions of all the products used must be observed. Use only labeled rates and methods of applications.

**Tank Mixtures**: Sencor® DF can be tank mixed with the products containing one or more of the following herbicides: 2,4-D, alachlor, atrazine, cyazine, glyphosate, linuron, metolachlor, metribuzin, parquat, and pendimethalin.

**Weeds Controlled**: Refer to the **PREPLANT AND PREEMERGENCE APPLICATION** section of this label for a list of weeds controlled by Sencor® DF when applied before weed emergence. Use recommended adjuvants when emerged weeds are present. Refer to the **BURNDOWN WEED CONTROL** section for a list of weeds controlled and weed height restrictions.

**Sequential Applications**: Sequential applications of all herbicides containing metribuzin (the active ingredient in Sencor® DF) are subject to a limitation of not more than 0.25 pounds a.i. of metribuzin (5% ounces of Sencor® DF) per acre of corn per use season. There are no other specific restrictions on sequential applications due to the application of Sencor® DF.

**SPECIAL PRECAUTIONS**:
- Do not apply more than a total of 5% ounces Sencor® DF (0.25 pounds metribuzin) per acre per growing season.
- Do not apply preplant or preemergence on soils having a pH 7.0 or greater.
- Corn seed should be planted a minimum of 1½ inches deep.
- Sencor® DF may only be used in hybrid seed production fields, if both inbred parents are known to be tolerant to Sencor® DF.
- Reduced residual weed control may result when used on organic soils. For this reason, residual weed control is not claimed on organic soils.
- Observe all precautions and limitations on labeling of all products used in tank mixes.

**Feeding restrictions**: Grain, forage, and processing waste may be fed to livestock if harvested at least 60 days after the last application of Sencor® DF.

**Sensitive Sweetcorn Hybrids**: Make applications only to hybrids that have established tolerance to the application planned.

**Application Methods and Timing**: Sencor® DF can be applied preplant surface or preemergence as a broadcast or band application in water, fluid fertilizer, or impregnated on dry fertilizer. Ground or aerial equipment may be used. See **DIRECTIONS FOR USE** section of this label for directions.

**Application Rate Recommendations**: Refer to the “Directions For Use” section of this label for definitions of “Soil Texture Group” and other information that applies to all applications. Use the lowest rate of the recommended rate range on soils with the lowest percent clay and organic matter for the group and progressively higher rate for increased clay and organic matter content. The clay content is at least twice as important as organic matter when adjusting rates. Rates will vary based on local conditions.

<table>
<thead>
<tr>
<th>SOIL TEXTURE GROUP</th>
<th>SOIL ORGANIC MATTER CONTENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.5% to 2.9%</td>
</tr>
<tr>
<td>ALL SAND SOILS</td>
<td></td>
</tr>
<tr>
<td>COARSE</td>
<td>1.6 to 2.4 oz/A</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>3.0 to 3.3 oz/A</td>
</tr>
<tr>
<td>FINE</td>
<td>3.6 to 4.0 oz/A</td>
</tr>
</tbody>
</table>

For early preplant application more than 9 days before planting and fields with at least 30% crop residue on the soil surface at application, the application rate may be increased 1 oz/A, but not to exceed 5% oz/A.

**Garbanzo Beans (Chickpeas)**

California, Idaho, Oregon, and Washington

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 Bayer CropScience. Buyer is advised that Bayer CropScience makes no assurances regarding satisfaction of the product and that all risks of crop injury or product performance are assumed by the Buyer.

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

**WEEDS SUPPRESSED**

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

* 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.

**RECOMMENDED APPLICATIONS**

<table>
<thead>
<tr>
<th>CROP</th>
<th>Sencor® DF lb/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garbanzo beans</td>
<td>5% to 10%</td>
</tr>
</tbody>
</table>
### RECOMMENDED APPLICATIONS

<table>
<thead>
<tr>
<th>CROP</th>
<th>SENCOR® DF Lb/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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. Use on coarse-textured soils, sandy soils or any soil with less than 1.5% organic matter will likely cause crop injury. Use the higher rate on fine textured soils (high in clay or organic matter) and in fields with a history of high weed populations.</td>
</tr>
<tr>
<td></td>
<td>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 boom while turning, slowing or stopping, or crop injury will occur.</td>
</tr>
</tbody>
</table>

### 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® DF, or crop injury may occur.
- 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.

### RECOMMENDED BROADCAST APPLICATIONS FOR SUGARCANE (HAWAII ONLY)

<table>
<thead>
<tr>
<th>SENCOR® DF</th>
<th>Lb/Acre</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2% to 5%</td>
<td>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). OR</td>
<td></td>
</tr>
</tbody>
</table>

### SUGARCANE SPECIAL PRECAUTIONS:

- For aerial and chemigation application methods on sugarcane the maximum application rate is 2% lb Sencor® DF/acre.
- To assure that spray will not adversely affect adjacent sensitive non-target plants, apply this product by aircraft at a minimum upwind distance of 400 ft from sensitive plants.
- Do not rotate any crop not listed on this label for 18 months following application of Sencor® DF. Refer to the “Crop Rotation Restrictions” section of this label for more information.

### WEEDS CONTROLLED IN IRRIGATED AND NON-IRRIGATED SUGARCANE

#### BROADLEAVES

<table>
<thead>
<tr>
<th>Amaranth, Spiny (Amaranthus spinosus)</th>
<th>Fineweed (Erechtites hieracifolius)</th>
<th>Spurge, Garden (Euphorbia hirta)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Euphorbia, Wild (Euphorbia spp.)</td>
<td>Floras paintbrush (Emilia sonochifolia)</td>
<td>Spurge, Graceful (Euphorbia glomerifera)</td>
</tr>
</tbody>
</table>

#### GRASSES

<table>
<thead>
<tr>
<th>Crabgrass (Digitaria spp.)</th>
<th>Plushgrass (Chloris radiata)</th>
<th>Wiregrass (Elesine indica)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guineagrass (Panicum maximum)</td>
<td>Oryzopsis hymenoides</td>
<td></td>
</tr>
</tbody>
</table>

### WEEDS CONTROLLED IN IRRIGATED SUGARCANE ONLY

#### BROADLEAVES

<table>
<thead>
<tr>
<th>Amaranth, Spleen (Amaranthus dubius)</th>
<th>Hialoa (Walteria americana)</th>
<th>Purslane, Common (Portulaca oleracea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haole Koa (Leucana leucocephala)</td>
<td>Hihalila (Mimosa pudica)</td>
<td>Rattlepod (Crotalaria spectabilis)</td>
</tr>
</tbody>
</table>

### GRASSES

<table>
<thead>
<tr>
<th>Alexandergrass (Brachiaria plantaginea)</th>
<th>Bristly foxtail (Setaria verticillata)</th>
</tr>
</thead>
</table>

### WEEDS CONTROLLED IN NON-IRRIGATED SUGARCANE ONLY

#### BROADLEAVES

<table>
<thead>
<tr>
<th>Ageratum (Ageratum conyzoides)</th>
<th>Richardia (Richardia brasiliensis)</th>
<th>Tarweed (Cuphea carthagenensis)</th>
</tr>
</thead>
</table>

---

### SPECIMEN LABEL

Do not use on clay knobs or poorly covered subsoils. Do not apply more than 2/3 lb Sencor® DF per acre per year. 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 soils with less than 1.5% organic matter. Do not apply to “Extin” lentils. Do not use on clay knobs or poorly covered subsoils. Do not apply on shallow seedings less than 2 inches deep (preemergence only).
### RECOMMENDED BROADCAST APPLICATIONS SUGARCANE (HAWAII ONLY)

<table>
<thead>
<tr>
<th>SENCOR® DF (Lb/acre)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5% to 8 (irrigated)</td>
<td>EARLY POSTEMERGENCE: (Irrigated and non-irrigated sugarcane): Apply specified dosage per acre as a broadcast spray over the canoe. Application may be delayed as long as 4 to 6 weeks after planting provided weeds are less than 3 inches in height.</td>
</tr>
<tr>
<td>2% to 5%</td>
<td>OR 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.</td>
</tr>
<tr>
<td>3% to 6%</td>
<td>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.</td>
</tr>
</tbody>
</table>

**NOTE:** Do not apply more than 10 lbs of Sencor® DF (6 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® DF 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)

#### GRASSES
- Broadleaf Signalgrass (Brachiaria platypylla)
- Crabgrass (Digitaria sanguinalis)
- Foxtail, bristlegrass (Setaria magna)

### RECOMMENDED APPLICATIONS SUGARCANE (LOUISIANA AND TEXAS ONLY)

<table>
<thead>
<tr>
<th>SENCOR® DF (Lb/Acre)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 to 4</td>
<td>BROADCAST: 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.</td>
</tr>
<tr>
<td>1 to 2</td>
<td>BAND: 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.</td>
</tr>
</tbody>
</table>

### 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 laisy. Do not apply within 60 days of harvest.

### SUGARCANE (FLORIDA ONLY)

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

#### BROADLEAVES
- Amaranth, Spiny (seedling) (Amaranthus spinosus)
- Butterweed (Cressleaf groundsel) (Senecio glabellus)

#### GRASSES
- Crabgrass large (Digitaria sanguinalis)
- Foxtail, bristlegrass (Setaria magna)

### RECOMMENDED APPLICATIONS SUGARCANE (FLORIDA ONLY)

<table>
<thead>
<tr>
<th>SENCOR® DF (Lb/Acre)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1% to 2%</td>
<td>GROUND APPLICATION: Sencor® DF 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.</td>
</tr>
<tr>
<td></td>
<td>POSTEMERGENCE BROADCAST OR BAND: Apply over the top of stubble or plant cane while sugarcane is less than 14 inches tall.</td>
</tr>
<tr>
<td></td>
<td>POSTEMERGENCE DIRECTED SPRAY: Apply to sugarcane that is a minimum of 14 inches tall and before row closing.</td>
</tr>
</tbody>
</table>

### RECOMMENDED APPLICATIONS SUGARCANE (FLORIDA ONLY)

| SENCOR® DF (Lb/acre) | AERIAL APPLICATION: 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® DF PLUS ATRAZINE TANK MIX:** Sencor® DF may be used with atrazine as a preemergence or postemergence (before row closing) application to sugarcane. Rates for Sencor® DF are 1 to 2 lb/acre and atrazine 80% WP (4L) are 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.

### SPECIAL PRECAUTIONS (FLORIDA ONLY):
- Do not use more than 2% lb per acre in a single growing season. Do not use on sands and 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.

**TOMATOES**

Apply Sencor® DF herbicide with ground equipment to seeded and transplanted tomatoes as specified below under “Recommended Applications”.

For effective control of grasses and broadleaf weeds with postemergence applications, apply Sencor® DF before weeds are 1-inch tall. Thorough spray coverage on weed foliage is essential for adequate control with postemergence applications. Do not use air blast or other high pressure spray equipment to make postemergence applications of Sencor® DF. 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 specific application information see the “General Information” section in the front of this label.

### WEEDS CONTROLLED 

**PREPARED INCORPORATED APPLICATIONS TRANSPLANTED TOMATOES ONLY**

<table>
<thead>
<tr>
<th>BROADLEAVES</th>
<th>GRASSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lambsquarters (Chenopodium album)</td>
<td>Purslane, Redroot (Amaranthus retroflexus)</td>
</tr>
<tr>
<td>(Galisinoga spp.)</td>
<td>(Portulaca oleracea)</td>
</tr>
<tr>
<td>Pigweed, Redroot (Amaranthus retroflexus)</td>
<td>Purslane, Common (Portulaca oleracea)</td>
</tr>
<tr>
<td>(Galisinoga spp.)</td>
<td>(Portulaca oleracea)</td>
</tr>
</tbody>
</table>

Prepared incorporated applications applied as directed will suppress foxtails, panics and barnyardgrass.

**Sencor®DF/Trifluralin Tank Mix:** This tank mix combination applied prepared incorporated as directed on this label will control the weeds listed above plus those weeds listed on the trifluralin label.

* 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.

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

### WEEDS CONTROLLED 

**POSTEMERGENCE APPLICATIONS ESTABLISHED TOMATOES**

For effective control of weeds with postemergence applications, apply Sencor® DF before weeds are 1-inch tall.

**Broadcast Sprays ¾ to ½ lb Sencor® DF/Acre**

**BROADLEAVES**
- Carpetweed (Mollugo verticillata) (Chenopodium album) *(Smartweed, Pennsylvania)* *(Polycnorum pensylvanicum)*
- Fumitory (Fumaria officinalis) (Brassica kaber) *(Oxalis)* *(Linaria spp.)*
- Galinsoga (Galisinoga spp.) (Amaranthus spp.) *(Galinsoga)* *(Galisinoga)* *(Amaranthus)*
- Jimsonweed (Datura stramonium) Purslane (Portulaca oleracea) *(Datura)* *(Portulaca)* *(Amaranthus)*
- Ladybird (Polygala persicaria) *(Ragweed, Common)* *(Ragweed, Ambrosia)* *(Ambrosia artemisiifolia)*

**Directed Sprays ¾ to ½ lb Sencor® DF/Acre**

**GRASSES**
- Foxtail, Yellow (Setaria glauca) (Elymus indica) *(Foxtail, Ambrosia)* *(Foxtail, Setaria)* *(Foxtail, Ambrosia)*

* 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.

Postemergence applications as directed on this label will suppress barnyardgrass and crabgrass when these weeds are less than 1-inch tall.
### RECOMMENDED BROADCAST APPLICATIONS FOR TOMATOES

<table>
<thead>
<tr>
<th>SENCOR® DF</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾ to 1%</td>
<td>PREPLANT INCORPORATED—TRANSPLANT TOMATOES: Only apply specified dosage in 10 or more 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 trifluralin. When transplanting tomatoes, place the root system of the plants below the herbicide incorporation zone growing under unirrigated conditions for specific rate of application and for additional precautions and restrictions for tomatoes. Postemergence broadcast spray—established tomatoes: Apply specified dosage in 20 or more gallons of water per acre as a broadcast spray, or apply in ⅛ to ⅜ inch of water (use ⅛ to ⅜ inch of water on sandly soils) per acre as a continuous injection in the center pivot or lateral move systems or apply in the last 15 to 30 minutes of a 20 to 30 inch in permanent solid set sprinkler systems. One or more applications may be applied per use season. Allow at least 14 days between applications or severe crop injury may occur. Do not apply until transplants have recovered from transplant shock and new growth is evident. Do not apply to tomatoes within 24 hours of application of other pesticides or do not tank mix with other pesticides. (See “Special Precautions” below.)</td>
</tr>
</tbody>
</table>

### SPECIAL PRECAUTIONS (Tomatoes):

- Do not apply more than a total of 1½ lb SENCOR® DF per crop season.
- Do not apply the total amount of 1½ lb SENCOR® DF 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 or severe crop injury may occur.
- 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® DF. Do not treat seeded tomatoes until plants have reached the 5 to 6 leaf stage or severe crop injury may occur.
- Crop injury or delayed maturity may result from broadcast or directed spray applications if tomatoes are stressed by adverse conditions such as periods of drought or cool, wet and cloudy weather preceding application.
- For newly introduced tomato varieties with unknown tolerance to SENCOR® DF, treat only a small area to determine if SENCOR® DF can be used without injury to the crop.
- Aerial application is prohibited.

**DO NOT USE SENCOR® DF ON TOMATOES IN KERN COUNTY, CALIFORNIA**

### CEREALS

(Spring and Winter Barley and Winter Wheat)

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

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

**Application:** SENCOR® DF may be applied by aerial or ground equipment application. Use a minimum spray volume of 2 gpa by air and 10 gpa by ground. Uniform spray coverage is necessary to obtain optimum weed control and to minimize potential for crop injury. Do not exceed rates specified on this label. Do not apply SENCOR® DF through any type of irrigation equipment. Apply SENCOR® DF when the crop is healthy and actively growing. SENCOR® DF may be applied more than once per crop season. Allow a minimum of 21 days between applications if wheat is actively growing or allow 45 days between applications if wheat is growing in adverse conditions. This ensures dormancy of winter wheat or in emergence of weed, control in poor or erratic weed control. Control or suppression of listed weeds is dependent on weed size at time of application. Control or suppression may be reduced if broadleaf weeds are taller than 1 inch or grasses have more than 2 leaves.

### Tank Mixtures:

- **SENCOR® DF** may be tank mixed with *Ally*, *Amber*, *Finesse*, *Glean*, *FC*, *Harmony*, *Extra*, *2,4-D*, *MCPA*, *Igran*, *Banvel/Banvel*, *SGF*, *Bronate* or *Buctril* herbicides.
- A nonionic surfactant containing at least 80% active ingredient may be used in SENCOR® DF tank mixtures with sulfonylurea herbicides (*Ally*, *Amber*, *Finesse*, *Glean*, *FC* and *Harmony* *Extra*).
- Do not use a crop oil concentrate or an adjuvant containing vegetable or petroleum oils with any SENCOR® DF mix as crop injury may result. Additional pesticides may also be tank mixed with SENCOR® DF unless specifically prohibited on the mix products’ label. In some instances, combinations with organophosphate insecticides may cause temporary leaf yellowing and/or crop injury, especially when widely fluctuating day/night temperatures occur near application. Always refer to the other product labels registered for use on cereals for additional directions, rates and weed species controlled. Observe all precautions and limitations on labeling of all products used in mixtures.

### Feeding Restrictions:

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

### SPECIAL PRECAUTIONS:

**Cereal Injury—Crop injury may occur if SENCOR® DF is applied:**
- When the crop is under stress such as winter kill, frost damage, disease, drought or excessive moisture, severe grazing, or when these conditions follow the application.
- In combination with fluid fertilizer especially with the addition of surfactant.
- Prior to the growth stage specified on this label.
- To soils high in lime or sodium, a pH greater than 7.7, calcareous, gravelly, thinly covered or exposed subsoil areas.
- To fields where cereal seed has been planted less than 1 inch deep.
- To a non-winter hardy wheat or barley variety.
- To a sensitive wheat or barley variety as listed below.
- To frozen soil or crop still in winter dormancy.

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

### APPLICATION RECOMMENDATIONS

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

**RECOMMENDED POSTEMERGENCE BROADCAST APPLICATIONS OF SENCOR® DF**

<table>
<thead>
<tr>
<th>CROP GROWTH STAGE</th>
<th>SOIL TEXTURE</th>
<th>SENCOR® DF RATE (oz/A)</th>
<th>% ORGANIC MATTER</th>
<th>0.75 TO 2.0</th>
<th>OVER 2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.75 TO 2.0</td>
<td>OVER 2.0</td>
</tr>
<tr>
<td>2 Leaf</td>
<td>COARSE</td>
<td>1 to 2</td>
<td>1 to 3</td>
<td>1 to 3</td>
<td>1 to 3</td>
</tr>
<tr>
<td>To MEDIUM</td>
<td>2 to 3</td>
<td>2 to 3</td>
<td>2 to 3</td>
<td>2 to 4</td>
<td>2 to 4</td>
</tr>
<tr>
<td>4 Tiller</td>
<td>FINE</td>
<td>3 to 4</td>
<td>4 to 5</td>
<td>4 to 5</td>
<td>5 to 6</td>
</tr>
<tr>
<td>To MEDIUM</td>
<td>5 to 6</td>
<td>5 to 6</td>
<td>5 to 6</td>
<td>5 to 6</td>
<td>5 to 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.75 TO 2.0</td>
<td>OVER 2.0</td>
</tr>
<tr>
<td>3 Tiller</td>
<td>COARSE</td>
<td>3 to 4</td>
<td>4 to 5</td>
<td>6 to 8</td>
<td>6 to 8</td>
</tr>
<tr>
<td>To MEDIUM</td>
<td>5 to 6</td>
<td>5 to 6</td>
<td>5 to 6</td>
<td>5 to 6</td>
<td>5 to 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.75 TO 2.0</td>
<td>OVER 2.0</td>
</tr>
<tr>
<td>4 Tiller</td>
<td>FINE</td>
<td>5 to 8</td>
<td>6 to 8</td>
<td>5 to 8</td>
<td>6 to 8</td>
</tr>
</tbody>
</table>

Do not apply within 2 weeks after doing before winter dormancy. Do not apply after the crop is at or beyond the 3 tiller growth stage but before jointing. Secondary roots should be developed and larger than 1 inch long. Do not apply within 75 days after planting. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. *GEORGIA ONLY: Must be planted before November 15 in the Piedmont area and Northern part of the state, and before December 1 in the Coastal Plain area. *

### WHEAT AND BARLEY VARIETAL TOLERANCE

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

- **Over 4 Tiller:** COARSE, MEDIUM, FINE
- **4 Tiller:** COARSE, MEDIUM, FINE

Do not apply within 2 weeks after doing before winter dormancy. Do not apply after the crop is at or beyond the 3 tiller growth stage but before jointing. Secondary roots should be developed and larger than 1 inch long. Do not apply within 75 days after planting. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control. For dryland winter wheat (non-irrigated), apply the highest recommended rate to achieve maximum weed suppression/control.

Barley: Advance, Boyer, Clark, Compa, Hannchen, Hester, Hudson, L, Luther, Kiam, Klass, Olympic, Piriline, Stepoo and Trium.

The following cereal varieties are sensitive to Sencor® DF and are not recommended for use:


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

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

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

*Abbreviated names of vendors: AS (Aspeco), AT (Agratech), DB (Diener Bros.), FS (Gromark FS), PI (Pioneer), PSR (Hybrtech), SC (J.M. Schulz), TE (Terra), and TR (Terral).*

**WEEDS CONTROLLED**

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

- Bittercress
- Catchly, Conical (Sand)
- Catchweed (Madowt)
- Chickweed, Common
- Chickweed, Mousear
- Corncoke Dogfennel (Mayweed)
- Evening Primrose, Cutleaf
- Falsefex, Smallseed
- Fiddlenace

**WEEDS SUPPRESSED**

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

**BROADLEAVES**

- Buckwheat, Wild*
- Buttercup, sp.
- Cowcockle

**GRASSES**

- Barley, Hare (Wild)
- Barley, Little
- Blackgrass
- Bluegrass, Annual
- Bluegrass, Bulbous

* Use the highest recommended Sencor® DF rate for maximum weed suppression.

**FOR WEED CONTROL IN A WHEAT/FALLOW/WHEAT ROTATION**

Sencor® DF 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 growing

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® DF 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
- Henbit (Lamium amplexicaule)
- *Kochia (Kochia scoparia)
- Lambsquarters
- Cheatom (Chenopodium album)

**GRASSES**

- Cheatom (Bromus secalinus)
- Downy Brome (Bromus tectorum)

*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® DF may be applied to the stubble after harvest in the Fall. Apply ½% to 1 lb 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 (½ inch or more) is necessary for herbicide activation.

SPRING APPLICATION (Summer Fallow): Sencor® DF may be applied to the stubble in the Spring. Apply ½ to 1 lb 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 (½ 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 RESTRICTIONS

<table>
<thead>
<tr>
<th>Waiting Period After Sencor® Herbicide Application</th>
<th>Alfalfa</th>
<th>Asparagus</th>
<th>Barley*</th>
<th>Corn</th>
<th>Forage Grasses</th>
<th>Peas</th>
<th>Lentils</th>
<th>Soybeans</th>
<th>Sainfoil</th>
<th>Sugarcane</th>
<th>Wheat ²</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Months</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Months</td>
<td></td>
<td></td>
<td>Barley</td>
<td></td>
<td>Peas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 Months</td>
<td></td>
<td></td>
<td>Lentils</td>
<td></td>
<td>Wheat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 Months</td>
<td></td>
<td></td>
<td>Potatoes</td>
<td></td>
<td>Rice¹</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ 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.
² Following peas, lentils or soybeans.

Do not rotate rice after any application to a primary crop greater than 1.0 lb ai/A of Sencor® DF per season.

Do not rotate any crop not listed on this label after application of Sencor® DF to sugarcane.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

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