

SOYBEANS - FINE SOIL - LESS THAN 1.5% ORGANIC MATTER

General Information

HERBICIDE RESISTANCE

Blanket 4F must be applied at the labeled rates and in accordance with label directions. Do not apply Blanket 4F at rates less than those listed.

Observe target areas prior to treatment and apply Blanket 4F when weeds are smaller.

If levels of control provided by applications of this product is reduced, and cannot be accounted for by factors such as misapplication, abnormal levels of target species or extremes of weather, it may be the case that target species have developed a strain resistant to applications of Blanket 4F. If resistance develops, Blanket 4F may not provide sufficient control of target species. Where you suspect target species are developing resistance, contact State/local agricultural advisors.

Certain species may develop resistance to this product/other herbicides where they are used repeatedly. Application of pesticide products therefore should be carried out in consultation with local/State agricultural advisors so that local resistance management strategies can be implemented. In order to limit the possibility of resistance developing, apply Blanket 4F in rotation with products that have a different mode of action and other classes of chemistry.

PRODUCT INFORMATION

Blanket 4F is a soil-applied selective herbicide. It will control listed grasses, sedges and broadleaf weeds. Blanket 4F is a flowable product that contains 4 pounds of active ingredient (sulfentrazone) per gallon.

The active ingredient sulfentrazone inhibits an enzyme required by plants in order to produce chlorophyll. Inhibiting this enzyme leads to the release of singlet oxygen (O) which then disrupts cellular membranes, resulting in cellular leakage and cellular death ultimately resulting in plant death. Blanket 4F has a selective mode of action because sulfentrazone has a greater affinity for the PPO IX enzyme in listed weed species as opposed to listed crops.

Blanket 4F must be prepared and used in such a way so as to prevent the following:

- spills
- improper disposal of spray mixtures, rinsate or any excess pesticide
- back siphoning in wells

Setback

The following activities must not be carried out within 50 feet of any well (including drainage and abandoned wells) unless the activity is carried out on an

impervious pad that has been built to withstand the heaviest possible weight that will be moved across the pad or placed upon it:

- Loading
- Mixing
- Washing/rinsing Blanket 4F from application equipment

The impervious pad must be made to contain any leaks or spills, as well as any rinsate/washwaters and rain that may fall upon it. An impervious pad that

does not have a roof must have enough capacity to contain a minimum of 110% of the volume of the largest container that will be placed on the pad. Those

pads that are covered by a roof must have enough capacity to contain a minimum of 100% of the volume of the largest container that will be placed on the

pad. The roof must be big enough to completely exclude contact with the pad from rainfall.

The above containment volume minimum must be maintained. The minimum capacity volumes do not apply to the following:

- Vehicles delivering pesticide product to the load/mix area

Applicators must ensure that they are aware of any State requirements for containment and set back from wells.

The impervious pad must be self-contained so that surface water cannot flow over or from one pad. They must also be sloped to allow for material removal.

Do not load or mix Blanket 4F within 50 feet of any sinkholes, reservoirs, impounded or natural lakes, wells (including drainage and abandoned wells) or

intermittent/perennial rivers and streams. This restriction does not apply where there are properly diked loading/mixing areas or impervious pads. The

restriction also does not apply where abandoned wells are properly plugged or capped.

APPLICATION INSTRUCTIONS

Apply this product in one of the following ways:

- as a surface application, pre-emergence treatment (i.e. before crop and/or weed emergence)
- as an incorporated treatment prior to planting
- Post-plant application
- Over-the-top
- Layby

For further detail, refer to the Crop Specific Use Directions on the label.

Blanket 4F must be incorporated following a uniform surface application to a depth of 2 inches maximum. If it is incorporated to a greater depth, reduced control of target species may result. Applicators must ensure that there is no overlap between areas that have been treated with Blanket 4F due to soil movement. Such an

overlap could cause an adverse crop response.

When Blanket 4F is soil applied or applied as a post-plant treatment, the herbicidal action of the product must be activated by moisture. The amount of moisture required depends upon a number of factors including:

- soil type
- organic matter content
- tillage
- existing soil moisture at the time of treatment

For an effective application of Blanket 4F, 0.5 to 1 inch of irrigation or rainfall is required within 7 to 10 days following treatment. If that level of moisture is not received, shallow incorporation must be undertaken in order to obtain sufficient control of target species. Activating moisture can be delayed for 10 – 14 days, and sometimes longer, depending on the factors listed above. If activating moisture is delayed, however, control of listed species may be reduced, due to the growth of weeds during the delay.

When Blanket 4F has been activated, it will provide control of listed weed species. The level of control will depend on the size and type of weed species when Blanket 4F is activated. The control of listed germinating weed species will be reduced when rain or irrigation follows a period of dry weather.

Apply Blanket 4F prior to the germination of crop seeds in order to avoid damage to emerging seedlings. Crop damage may occur where treatment is delayed if seeds are germinating, or are close to the soil surface. If Blanket 4F is applied by surface application and activation has not been triggered by rainfall or irrigation (1/2" to 1" moisture) within 10 days of treatment, make a shallow incorporation (less than 2") of the product so that germinating weed species can be controlled. Soil incorporation will also facilitate product activation with existing soil moisture.

Where there is prolonged periods when rainfall/irrigation is not available, alternative weed control methods should be considered.

Follow Crop Specific Use Directions exactly and with care, particularly for post plant treatments.

Lay-by/Over-the-top applications provide control of listed species through contact and residual control (depending on weed species). Combining this product with a surfactant may improve control of listed species, but may also increase the risk of crop injury.

Applicators must be aware that certain crops will react differently to treatment with Blanket 4F according to the following factors:

- use rate
- specific crop species sensitivity
- soil composition

Once a treatment with Blanket 4F has been made, seedlings and germinating seeds absorb sulfentrazone from the soil solution. The amount of available active ingredient contained in the soil solution, is determined by the following factors:

- soil type
- soil pH
- soil organic matter content

Sulfentrazone is adsorbed by the organic matter and clay parts of soils. This absorption reduces the amount of active ingredient available for weed uptake. Clay content in soil tends to increase as the soil gets finer. Crop Use Directions are indicated per soil types.

The organic matter in soil will vary widely within soil classifications. In order to assess organic matter soil content, a detailed analysis will be required.

The amount of sulfentrazone available for uptake by weed species will increase as the pH of the soil increases. The pH of the soil must be accurately assessed using representative soil samples. In addition, irrigation with water with a high pH (i.e. alkaline water) following treatment, will increase the amount of available sulfentrazone for uptake by target species. However, if irrigation water pH exceeds

7.5, crop damage may result. The likelihood of an adverse response by crops will decrease as the growth stage of crops advances.

The use rate of this product will be determined by the following factors:

- Timing of treatment
- The amount of activating moisture (rainfall/irrigation)
- Soil parameters
- Soil pH

The Crop Specific Use Directions (below) for each crop, are based on:

- soil type
- soil organic matter
- soil pH interactions

The performance of Blanket 4F and crop tolerance is based on strictly following the Crop Specific Use Directions.

Application by Air

- Apply Blanket 4F using appropriate nozzles that will allow for optimal coverage, will minimize drift and will keep fine spray droplets to a minimum.
- Apply Blanket 4F in an appropriate volume for sufficient coverage. Use minimum spray volume of 5 gallons per acre.
- Do not apply Blanket 4F when wind speed is likely to cause drift outside the target area.

Application by Ground

- Apply Blanket 4F using a boom and nozzle sprayer with the appropriate spray tips, screens and nozzles. Application equipment must be calibrated for optimal coverage and spray distribution at the appropriate pressure.

- Use spray nozzles that will minimize drift by keeping fine spray droplets to a minimum.
- Apply Blanket 4F in a minimum spray volume of 10 gallons per acre. Avoid overlapping applications which may result in excessive treatment and adverse crop response. When starting, turning or stopping, slower ground speed of application equipment may also lead to excessive treatment.
- Do not apply Blanket 4F when wind speed is likely to cause drift outside the target area.

Band Treatment Applications

Blanket 4F can be applied as a banded treatment application. When calculating rates for band treatment, apply the equivalent volume per acre rate for broadcast treatment by using the equation. See label for the equation/formula.

Limitations, Restrictions, and Exceptions

SOYBEANS

To control susceptible weeds in soybeans, Blanket 4F can be applied to soybeans in the spring (preemergence or preplant incorporated). Blanket 4F can also be applied in the fall, before spring planting of soybeans.

Application Instructions

Apply amount of Blanket 4F indicated above to the soil surface in the spring, preplant incorporated or preemergence, up to 3 days after planting (applications more than 3 days after planting can result in injury, if seeds are germinating) in conventional, conservation, reduced or no-tillage cropping systems. If seedlings are close to soil surface or have emerged, do not apply Blanket 4F.

The listed amount of Blanket 4F can also be applied in the fall in conservation and no-tillage cropping systems for burndown of existing crop stubble and weeds and for preemergence control of weeds. For optimum results, fall applications should be a part of weed control programs that include spring herbicide applications the following crop season, as needed. Apply in the fall when soil temperature is sustained at 55 °F down to a depth of 4 inches. If using a ridge till production

system, form ridges or beds prior to

Blanket 4F application.

Application should follow the following date restrictions:

Areas north of Interstate 90 – Apply after September 30

Areas north of Interstate 70 – Apply after October 15

Areas south of Interstate 70 – Do not make fall application

Blanket 4F can be applied by ground or aerial application. Mix Blanket 4F in water to make a minimum of 5 gallons of spray solution for aerial application or 10 gallons of spray solution for ground application. Be sure to use enough spray volume for acceptable soil coverage. Spray should be applied with nozzles that produce a minimum amount of fine droplets, but also generate optimum soil coverage. If applying the product preplant incorporated, in the spring, mix thoroughly and shallowly incorporate the Blanket 4F into the soil. Inconsistent weed control can result if product is not uniformly incorporated, or incorporated deeper than the maximum incorporation depth of 2 inches.

Important

- Adverse or poor growing conditions (disease, cool weather, pH of 7.5 and above, prolonged and excessive moisture, poor agronomic practices) can cause undesirable crop response (such as discoloration or stunting). Normal growing conditions will lessen and diminish these effects.
- Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on the label prior to use.
- Consult with university or extension weed management specialists for information on using Blanket 4F with specific local varieties or cultivars of soybean.
- Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. If making a preplant fall application, the 12 month period starts at this point.

- Do not use on soils that contain less than 1% organic matter (soils classified as 'sand').
- To prevent runoff of Blanket 4F from snowmelt or rain, do not apply Blanket 4F to soils that are frozen or have an existing snow cover.
- Do not apply after soybean seed has germinated.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Band](#)

[Broadcast/Foliar Air](#)

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[Band](#)

[Broadcast/Foliar Air](#)

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[Band](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Band](#)

Rates

[field_rates 0](#)

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Restricted Entry Interval

12 hours

Soils

[Fine](#)

[Silty Clay Loam](#)

[Silty Clay](#)

[Clay Loam](#)

[Clay](#)

Timings

[Preemergence \(Crop\)](#)

[Preplant](#)

[Preplant Incorporated](#)

[In the spring](#)

[In the fall](#)