

SUGAR BEETS - NORTH DAKOTA AND MINNESOTA - MEDIUM

General Information

USE PRECAUTIONS

Willowood Ethofumesate 4SC or tank mixes must be used for label listed purposes and at label specified rates only. (DO NOT OVERTREAT). Do not graze livestock on treated crops.

Do not apply this product through any type of irrigation system.

If crop is lost due to climatic or soil conditions following application of Willowood Ethofumesate 4SC or tank mixes, do not plant crops other than sugar beets or ryegrass in treated land during the same season. Do not retreat field with Willowood Ethofumesate 4SC. If fields are replanted to sugar beets, reseed into treated band.

Do not rotate with any crops other than sugar beets or ryegrass for:

- 12 months following preplant incorporated, preemergence, conventional postemergence applications, or split (low rate) applications totaling more than 12 fl. oz. (0.375 lb. ai/acre);

- 6 months following split (low rate) postemergence applications totaling 12 fl. oz. (0.375 lb. ai/acre) or less.

Thorough tillage, including moldboard plowing, should precede the planting of crops other than sugar beets or ryegrass. Do not use Willowood Ethofumesate 4SC on muck or peat soils.

Do not allow spray mixture to stand in tank overnight. Flush and drain spray equipment after each day's use. Store unused spray mixture in tightly-sealed containers and protect from frost.

The label must be in the possession of the user at the time of pesticide application.

Limitations, Restrictions, and Exceptions

SUGAR BEETS

PRODUCT INFORMATION

Willowood Ethofumesate 4SC is a selective herbicide for use in sugar beets for the control of the weed species listed below. It provides effective control of these weeds for up to 10 weeks following application.

Residual control of weeds is dependent upon soil moisture conditions; rate of herbicide used, and soil texture. The activity of Willowood Ethofumesate 4SC in the soil is reduced as the soil texture becomes finer and organic matter increases.

Aerial Application Rate Restriction: Do not apply more than 1.5 lbs. a.i. (3 pints of product) per acre with aircraft.

PRECAUTIONS/RESTRICTIONS

Following a preemergence treatment of Willowood Ethofumesate 4SC, do not apply conventional rates of Willowood Ethofumesate 4SC postemergence where more than 6 pints were applied preplant or preemergence. Do not apply more than 3.75 lbs. a.i. (7.5 pints of product) per acre per season for sugar beets. See Use Precautions for additional information on proper use.

PREPLANT INCORPORATED AND PREEMERGENCE APPLICATIONS

SOIL PREPARATION: The soil should be prepared according to good agricultural practices. Large clods can reduce the effectiveness of Willowood Ethofumesate 4SC and tank mixes. All existing vegetative growth should be thoroughly worked into the soil before treatment.

SPRAY EQUIPMENT: Apply Willowood Ethofumesate 4SC alone or in tank mixes to the soil using standard low pressure (20 to 50 psi) spray equipment. Spray equipment should be carefully calibrated before use and checked frequently during application to see that it is functioning properly. Do not use smaller than 50-mesh strainer. Uniformly apply the label-listed rates of Willowood Ethofumesate 4SC or tank mixes in 10 to 60 gallons of water per acre on a broadcast basis. Avoid overlaps since crop injury may result. When applying Willowood Ethofumesate 4SC or tank mixes in a band; check to make certain that the band width is accurate for the dosage rate being applied. The spray tank and lines should be thoroughly

cleaned and rinsed prior to using Willowood Ethofumesate 4SC.

INCORPORATION EQUIPMENT: Where soil incorporation is recommended, use a hooded power- or ground-driven rotary tiller, rolling cultivator, or similar equipment properly adjusted to uniformly incorporate Willowood Ethofumesate 4SC or tank mixes to a depth of 1 to 2 inches. Deeper incorporation may reduce effectiveness. Do not apply Willowood Ethofumesate 4SC or tank mixes through soil injector shanks. Incorporation should be accomplished prior to planting. If done after planting, proper precautions should be taken to avoid damaging or moving the crop seed. See below for Layering Application.

LAYERING APPLICATION: Spring: Form beds with appropriate bedding equipment. Pre-irrigate field if necessary.

Remove bed top with suitable de-ridging machinery to provide a minimum width of 10" across the top of the bed.

Apply Willowood Ethofumesate 4SC in a band at the specified rate indicated in the appropriate regional dosage table and cover the treated band with 1 inch of soil using ditchers or discs equipment. Shape the bed with roller shaper and irrigate until the tops of the beds are thoroughly wetted. Irrigate from furrows on both sides of the row.

Fall: This method of application can be used when spring moisture is marginal or where irrigation water is not available at planting time. Fall bedding utilizes the winter-accumulated moisture to enhance activation of the herbicide and to aid in germination of the sugar beet crop.

Prepare the field (as for planting; plow; pack, and float, etc.), in the fall, usually late September or October. Apply Willowood Ethofumesate 4SC in a band to the soil surface at the specified rate indicated in the appropriate regional dosage table. Be sure that the soil surface to be treated is free of trash and vegetation.

Cover the treated bands with soil and form beds or ridges using ditchers or discs. In the spring when the soil is sufficiently dry to be worked, de-ridge the beds down to within 1/2" to 1" of the treated layer using suitable equipment such as the Kirchner bedder or Oregon Northslope harrow. When de-ridging, maintain the original bedding guidance system by using a bull tongue chisel, slide guides or similar equipment. This will ensure that the planter will follow in the treated band. Plant

sugar beets in the de-ridged area when the soil conditions allow.

APPLICATION INSTRUCTIONS

Sugar beets grown under rainfall: Apply Willowood Ethofumesate 4SC alone or in a tank mix preemergence at time of planting or shortly after, but prior to weed germination. Willowood Ethofumesate 4SC or tank mix does not require mechanical soil incorporation provided that sufficient rainfall occurs shortly following application to activate the chemical. One-half inch of rainfall is usually adequate for activation. In areas where rainfall can be marginal for activation, such as the Red River Valley (Minnesota and North Dakota), it is recommended that Willowood Ethofumesate 4SC or the tank mix be applied before or at the time of planting and incorporated into the soil.

Sugar beets grown under furrow irrigation: Apply Willowood Ethofumesate 4SC alone or in a tank mix to the soil surface preplant or at time of planting, but prior to weed germination, and incorporate into the soil. Where sugar beets are grown in beds, apply Willowood Ethofumesate 4SC or tank mix after bedding and incorporate. Since Willowood Ethofumesate 4SC or tank mix must have moisture to control weeds effectively, irrigate until tops of beds are thoroughly wetted.

Sugar beets grown under sprinkler irrigation: Apply Willowood Ethofumesate 4SC alone or in a tank mix preemergence at time of planting or shortly after, and irrigate prior to crop and weed germination. Repeat irrigation as necessary to maintain good moisture in upper soil layer. Apply at least one-half inch of water during first irrigation.

Do not mechanically incorporate Willowood Ethofumesate 4SC or tank mix into the soil under sprinkler irrigation.

Cultural Practices Following Application: When properly applied, Willowood Ethofumesate 4SC alone or in a tank mix will provide up to ten weeks control of susceptible weed species. When cultivating fields in which Willowood Ethofumesate 4SC or tank mixes have been banded, care should be exercised to minimize the movement of untreated soil into the treated band. Where a broadcast application has been made, do not cultivate deeper than two inches, as this reduces the effectiveness of Willowood Ethofumesate 4SC or tank mixes.

Method

[Broadcast/Foliar Ground](#)

[Soil incorporation](#)

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[Soil incorporation](#)

[Broadcast/Foliar Ground](#)

[Soil incorporation](#)

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[Soil incorporation](#)

Rates

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Restricted Entry Interval

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.

Soils

[Medium](#)

[Silt Loam](#)

[Clay Loam](#)

Timings

[At-Plant](#)

[Preplant Incorporated](#)

[Preemergence \(Weed\)](#)

[Postplant](#)