



# WILLOWOOD FROSTGUARD

## FROST PROTECTION

### PRINCIPAL FUNCTIONING AGENTS

Cryoprotectant and Other Frost Protection Materials .....	60.00%
Inert Ingredients.....	40.00%
Total .....	100.00%

### GENERAL INFORMATION

Willowood Frostguard is a spray concentrate of anti-frost materials which can be applied by air or ground prior to anticipated frost conditions.

Willowood Frostguard has been shown to afford some protection within several hours after application, however, best results require application 24 to 48 hours before frost conditions occur.

**IMPORTANT:** Willowood Frostguard is a tool to help reduce damage from frost. Its use is recommended in conjunction with sound cultural and management practices. The use of Willowood Frostguard on unhealthy plants and/or the misuse of Willowood Frostguard may produce deleterious results. Willowood Frostguard should not be applied to runoff as phytotoxicity may occur.

### DIRECTIONS FOR USE

Read entire label carefully

- Apply Willowood Frostguard in sufficient amounts of water to cover all plant parts sensitive to frost. See label for specific crop information on application.
- Apply only when drying conditions are good. Application during periods of high humidity or slow drying conditions may result in phytotoxic response.
- Wash spray equipment before and after use with a commercially approved tank cleaner.
- Re-apply if 1/4 inch of rain occurs within 24 hours after application.

### CAUTION

- Do not apply within 7 days of any basic copper formulation
- Do not use on varieties that are known to be or suspected of being susceptible to zinc phytotoxicity.
- Do not use on water stressed or diseased crops or on crops which have been subjected to recent frost conditions.
- It is best to apply Willowood Frostguard alone, however, if it is to be tank mixed, conduct field tests prior to broad scale use.

- Do not use spray adjuvants with Willowood Frostguard.
- For deciduous crops, caution should be used if application is to be made during full bloom. Consult farm chemical supplier for information on crop sensitivity.
- Do not exceed 15% concentration of this material in water.
- Consult your farm chemical supplier for information on varietal sensitivities.
- Because of the hydroscopic/systemic properties of Willowood Frostguard, this product should not be used in close time proximity to compounds containing metals or materials which are not designed to be taken into the plant. Consult with the manufacturer of your chemical regarding the compatibility of their product when used near the application time of Willowood Frostguard.
- Due to the variability within species in application techniques and in climatic conditions, neither the manufacturer nor the seller has determined whether or not Willowood Frostguard can safely be used in combination with or near the application time that the user conduct a limited field prior to broad scale use to determine the suitability of Willowood Frostguard on the crop under local conditions.

## SHAKE WELL BEFORE USE

### PRECAUTIONARY STATEMENT

## CAUTION

Keep Out of Reach of Children

Harmful if swallowed. This product is an acid liquid. Wash spray equipment after use with water and neutralizer. Avoid skin contact. Causes eye and skin irritations.

### FIRST AID

In case of contact, wash affected areas with water immediately and continue washing for fifteen minutes. Call a doctor if irritation persists.

**Net Contents: 2.5 Gallons**

## DIRECTIONS FOR USE RATES PER ACRE

**Almonds, Pecans, Pistachios, Walnuts:** Apply 4 qts. per acre at bud break to first bloom. Repeat at post bloom and up to 4 weeks after petal fall if needed. Caution should be used if application is made during full bloom.

**Apples:** Apply 4 qts. per acre, at 14-21 day intervals, starting at bud break. Do not apply past the beginning of petal fall or when fruit is present.

**Apricots:** Apply 4 qts. at bud break to first bloom. If necessary, may apply after petal fall but before husk (jacket) drop if frost danger persists.

**Avocados:** Apply 4 qts. per acre when frost danger appears. Repeat as needed at 14-21 day intervals until frost danger is past.

**Berries (bush):** Apply 4 qts. per acre when frost danger is present and repeat application at 14-21 day intervals until frost danger is past.

**Beans, Peas, Seed Crops:** Apply 2-4 qts. per acre prior to frost danger and repeat at 10 (2qts. per sprayed acre rate) to 20 (4 qts. per acre rate) day intervals until danger of frost is past.

**Blueberries, Caneberries, Cranberries:** Apply 4 qts. per acre prior to frost danger and repeat at 14-21 day intervals until danger of frost is past.

**Broccoli, Brussels Sprouts, Cauliflower, Spinach:** Apply 4 qts. per acre prior to frost danger & repeat at 14-21 intervals until frost danger is past.

**Celery & Onions:** Apply 4 qts. per acre prior to frost danger and repeat at 14-21 day intervals until frost danger is past.

**Cucumbers, Melons, Squash:** Apply 4 qts. per acre at 14-21 day intervals until frost danger is past.

**Cherries:** Apply 4 qts. per acre from bud break to tight cluster. Repeat at first bloom if necessary. If necessary, may reapply between petal fall but before husk (jacket) drop if frost danger persists.

**Grapes:** Apply 2-4 qts. per acre between bud break and 6th leaf (12-inch shoot growth) but prior to frost conditions. Repeat applications can be made at 7-14 day intervals until frost danger is past. Do not apply more than 12 qts. per acre per season to grapes. NOTE: Certain varieties of grapes may be sensitive to application and may develop slight phytotoxic symptoms.

**Grapefruit, Oranges (Navals, Valencias):** Apply 6-8 qts. per acre prior to frost danger and repeat as needed in 24-30 day intervals until danger of frost is past.

**Hops:** Apply 4-6 qts. per acre prior to frost danger and repeat in 20-30 day intervals until frost danger is past.

**Jobba:** Apply 4 qts. per acre prior to frost danger and repeat as needed in 21-30 day intervals until danger of frost is past.

**Lemons & Limes:** Apply 6-8 qts. per acre prior to frost danger and repeat as needed in 24-30 day intervals until danger of frost is past.

**Nectarines, Peaches, Plums:** Apply first application of 4 qts. per acre anytime between bud and first pink bud, A repeat application may be made before petal fall if frost danger persists.

**Ornamentals:** See current Ornamental Supplemental Label.

**Pears:** Apply 4 qts. at bud break to tight cluster stage. Repeat at first bloom if needed. Apply at petal fall if frost danger is still present.

**Potatoes:** Apply 4 qts. per acre after plant emergence. Repeat applications may be made in 7-14 day intervals until danger of frost is past.

**Strawberries:** Apply 4 qts. per acre when frost danger is present and repeat at 14-21 day intervals until danger of frost is past.

**Sugar Beets:** Apply 4 qts. per acre after plant emergence. If frost danger is present, repeat applications may be made at 7-14 day intervals until frost danger is past.

**Tomatoes and Peppers:** For established plants, 3-4 qts. per acre. Repeat applications may be made at 7-14 day intervals until danger of frost is past. Caution should be used if application is made during full bloom.

**Tangerines, Tangelos, and other Citrus:** Apply 6 qts. per acre prior to frost danger and repeat as needed in 24-30 day intervals until danger of frost is past.

**Transplants (Greenhouse):** For labeled crops, apply 0.5%-1.5% solutions.

After 10 days, application may be repeated if danger of frost persists. When transplant is well established, use labeled rate for crop.

## IMPORTANT INFORMATION ON BACKPACK SPRAYER OR BANDED APPLICATION

**Backpack Sprayers:** When applying with backpack sprayer, there are several important things to remember: When using a backpack sprayer, it is important to use an even, consistent spray pattern. There is a danger of over spraying or under spraying when using this type of equipment. Try to duplicate the type of coverage which would be applied if an aerial or broadcast application was being done. Do not use backpack spray equipment which has been used for herbicide application. Always use an approved tank cleanser to clean a backpack sprayer both before and after applications.

**Banded Applications:** To apply in a banded or strop spray pattern, always adjust the per acre rate down to the appropriate amount of spray mix for the actual sprayed or treated acreage. For most crops, the label rate for is for broadcast or aerial application. Banded applications take less material and the actual needed material must be determined before spraying. A banded application may be used for newly planted row crops or for vegetable crops. For new transplants, the label rates given for a "sprayed acre," first determine the amount of area actually to be sprayed. For instance, if the area is to be sprayed represents only one-fourth of the total area of an acre, then one "sprayed acre" will represent four field areas.

**Example:** For a rate of 3-4 quarts per acre, applied in a 12-inch band, 40 inches between rows, calculate the proper rate for a band application as follows: Divided the sprayed row width by the unsprayed inches between the crop rows, multiply by the label rate and you will have the adjusted rate for a sprayed acre banded application. OR  
 $12 \text{ inches} \times 4 \text{ quarts} = 1.2 \text{ quarts}$   
40 inches

**Note:** FOR ADDITIONAL INFORMATION ABOUT CALIBRATION FOR A BANDED OR STRIP SPRAY APPLICATION. PLEASE CONSULT YOUR FARM ADVISOR TO ADJUST RATES ACCORDINGLY.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Triple rinse container, empty rinsate into spray tank. Dispose of empty container according to approved local practices; contact agricultural commissioner for disposal information.

## CONDITIONS OF SALE

The directions for use of this product are based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks associated with this product. Crop injury, yield reduction, slow drying conditions, weather conditions, incompatibility with other materials, or use of the product in a manner inconsistent with the product labeling are all factors beyond the control of the Manufacturer or the seller. All such risks are to be fully assumed by the Buyer. If these conditions of sale are not acceptable to the user then the product should be returned unopened to the seller.



**WILLOWOOD USA**

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