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ORYZALIN 4 A.S.

A preemergence surface-applied herbicide for the control of many annual grasses and certain broadleaf weeds in citrus, fruit and nut trees, berries, vineyards and Christmas tree plantations.

Active Ingredient:
Oryzalin: 3,5-dinitro-N, N-dipropylsulfanilamide 41%
 inert ingredients: 59%

TOTAL: 100%

Contains pounds of active ingredient per gallon:
EPA Reg. #: 72167-17-73220
EPA Est. #: 37429-GA-1
CA091802

KEEP OUT OF REACH OF CHILDREN

CAUTION

See inside booklet for complete Precautionary Statements, Directions for Use, and Conditions of Sale and Warranty.

PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals

CAUTION

Personal Protective Equipment (PPE)

Applicants and other handlers must wear:
• Long-sleeved shirt and long pants
• Chemical-resistant gloves
• Shoes plus socks
• Mixers and loaders must wear a chemical-resistant apron in addition to other PPE

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them. 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 laundry.

Engineering Controls Statements

When handlers use closed systems or enclosed cabs in a manner that meets the requirement listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d), (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users 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.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spills.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying. 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 24 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.

Workers may enter treated areas without required PPE during the reentry interval following 0 to 1 inch of rainfall or irrigation, if they are performing tasks that do not involve contact with the soil subsurface; otherwise, 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
• Chemical-resistant gloves
• Shoes plus socks

STORAGE AND DISPOSAL

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

Storage: Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

Pesticide Disposal: Wastes resulting from 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 by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

Oryzalin 4 A.S. herbicide is a preemergence, surface applied herbicide for the control of many annual grasses and certain broadleaf weeds in citrus, fruit and nut trees, berries, vineyards and Christmas tree plantations. Oryzalin 4 A.S. controls susceptible annual weeds by disrupting plant growth processes during germination. Oryzalin 4 A.S. may be applied in liquid sprays of water or liquid fertilizer. Oryzalin 4 A.S. may be tank mixed with other herbicides to control existing vegetation or improve the spectrum of weeds controlled. Oryzalin 4 A.S. alone does not control established weeds.

Oryzalin 4 A.S. may be applied before or after transplanting of the crop. If applied prior to transplanting: (1) disturbance of surface soil should be minimized to prevent loss of weed control; and (2) exposure of the roots of transplants to treated soil should be minimized to avoid any possibility of crop injury.

General Use Precautions and Restrictions
• Do not graze or feed forage from treated fields or orchards to livestock.
• Poor weed control may result if directions are not carefully followed.
• Do not over-apply Oryzalin 4 A.S. Over-application may result in crop injury or soil residue.
• Do not plant any root crop for 12 months following an Oryzalin 4 A.S. application.
• Do not use Oryzalin 4 A.S. on soils containing more than 5% organic matter.
• Apply Oryzalin 4 A.S. directly to the soil surface in orchards or vineyards.
• Carefully follow label directions to avoid poor weed control or crop injury.
• Chemigation: See instructions for chemigation in “Application Methods”.

Do not aerially apply this product.

Rotation Crop Interval

To avoid crop injury, a 24 month rotational interval is recommended when rotating from tree and vine crops to row crops.

Soil Preparation

Optimum herbicidal activity occurs when Oryzalin 4 A.S. is applied to the soil surface. Prior to application, existing unwanted vegetation should be destroyed by tillage or use of contact or translocated herbicides. Crop or weed residues, pruning and trash should be thoroughly mixed into the soil by tillage equipment or removed before treatment. Soil should be in good till and free of clods of the time of application.

Activation and Cultivation

A single ½ to 1 inch rainfall or sprinkler irrigation is required to activate Oryzalin 4 A.S. and move the herbicide into the zone of weed germination. Rainfall or irrigation of 1 inch or more is needed to activate Oryzalin 4 A.S. on fine-textured, high organic matter soils. If weeds begin to emerge, a shallow cultivation to a depth of 1 to 2 inches will destroy existing weeds and place Oryzalin 4 A.S. in the zone of weed germination.

Mixing Directions

Oryzalin 4 A.S.—Alone

Oryzalin 4 A.S. may be applied in water or most liquid fertilizer materials. Prior to mixing Oryzalin 4 A.S. in liquid fertilizer, refer to “Testing for Compatibility of Liquid Fertilizers” for test procedures to determine compatibility with the fertilizer product to be used. The combination of Oryzalin 4 A.S. with solution and suspension-type fertilizers provides annual weed control equal to Oryzalin 4 A.S. applied in water. Individual state regulations relating to liquid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company offering the fertilizer and chemical mixture for sale. Start with a clean spray tank. Fill the sprayer to ½ to 2½ of the required spray volume. Start agitation, shake the container well and add the correct amount of Oryzalin 4 A.S., continue agitation and fill spray tank to required spray volume. Maintain continuous agitation from mixing through application.

Precaution: Do not allow the mixture to siphon back into the water source.

Oryzalin 4 A.S. in Tank Mix

Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank mixes. Sparser pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture.
Oryzalin 4 A.S. may be tank mixed with label rates of other products and applied with water-soluble wetting materials. However, some liquid fertilizers labeled (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; (2) tank mixing is not prohibited by the label of the tank mix product; and (3) a jar test is performed to ensure the compatibility of products to be used in tank mixture.

Tank Mixing Precautions:

1. Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
2. Do not exceed recommended application rates.
3. For products packaged in water soluble packaging, do not tank mix with products containing boron; rinse or mix in equipment previously used to apply a product mixture containing boron unless the tank and spray equipment has been thoroughly cleaned.

Tank Mix Compatibility Testing: A jar test is recommended prior to tank mixing to ensure compatibility of Oryzalin 4 A.S. and other products. Use a clear glass jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately ½ hour. If the mixture balls-up, forms flakes, sludges, gels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Mixing Order (Tank Mixing With Water): Fill the spray tank to ⅓, to ⅔ of the total spray volume. Start agitation. Add different formulation types in the following order, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products:
1. Add dry flowables; wettable powders; Oryzalin 4 A.S. or other aqueous suspensions and water-based solutions.
2. Maintain agitation and fill spray tank to ⅔ of total spray volume. Then add any emulsifiable concentrates.

Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled material may be more difficult to resuspend than when originally mixed.

Tank Mixing with Liquid Fertilizer: Prior to mixing Oryzalin 4 A.S. with other products in liquid fertilizer, refer to the tank mix product manufacturer’s label to determine if application in liquid fertilizer is recommended. Also refer to “Testing for Compatibility in Liquid Fertilizers” for testing procedures to determine tank mix compatibility with the liquid fertilizer product to be used. The combination of Oryzalin 4 A.S. and other liquid and suspensions and emulsifiable concentrate (EC) formulations may not combine properly with some liquid fertilizer, refer to the tank mix product manufacturer’s label to determine if application in liquid fertilizer is recommended.

Mixing Order (Tank Mixing With Liquid Fertilizer): Fill the spray tank to ⅔ of the total spray volume required. Start agitation. Add different formulation types in the following order, allowing time for complete mixing and dispersion after addition of each product; allow extra mixing and dispersion time for dry flowable products:
1. Dry flowables; wettable powders; Oryzalin 4 A.S. or other aqueous suspensions; flowables; water-based solutions; and any emulsifiable concentrates.
2. Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled material may be more difficult to resuspend than when originally mixed.

Mixing Order: Vigorous continuous agitation is required for all tank mixes. Sparger pipe agitators generally provide the best agitation in spray tank. To prevent foaming, keep the end of the fill pipe below the surface of the water in the spray tank during filling to prevent air from being stirred or splashed into the mixture.

Mixing Order: Dry flowable and wettable powder formulations do not disperse well, it may be necessary to slurry the materials in a small amount of water before addition to the liquid fertilizer.

3. After dispersing the materials in step 2, add any S formulations to the jar and shake well. Finally, add EC formulations to the mixture and shake well. Observe the jar for about 10 minutes. If materials rise to the surface and form a thick layer that will not disperse when agitated, a compatibility agent is needed. If the mixture is easily redispersed with slight agitation, a compatibility agent is not required. Good agitation, however, must be provided to maintain dispersion in the spray tank from mixing through application.

4. If the need for a compatibility agent is demonstrated in step 3, the following procedure is recommended: Use a clean clear plastic or glass container, repeat step 1 above and add ⅓ teaspoon of the compatibility agent to the liquid fertilizer mixture. Shake well and then repeat steps 2 and 3.

An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separation for ½ hour or longer. If slight separation occurs, 2 to 3 inversions of container should be sufficient to uniformly disperse the mixture. If layers form which will not disperse, try adding additional compatibility agent or use an alternative compatibility agent to achieve a uniform mixture. Use a clean jar in each test. A compatible mixture will have a uniform appearance and will be relatively easy to redispense with gentle agitation of the jar.

Compatibility Agents

Use a phosphate ester-type surfactant designed for use with liquid fertilizers mixed at rates as low as 1 ⅔ to 2 pints per ton of liquid fertilizer. This type of surfactant usually doesn’t work well as a compatibility agent for tank mixes in plain water. Add the compatibility agent just before adding herbicides. Read and follow label directions for the compatibility agent.

APPLICATION METHODS

Ground Broadcast Application

Apply Oryzalin 4 A.S. directly to the soil surface of the orchard or vineyard in a total spray volume of 20 to 40 gallons per acre (broadcast basis), using any properly calibrated low pressure herbicide sprayer that will apply the spray uniformly. Use herbicide nozzle tips and screens no finer than 50 mesh for nozzle and inline strainers. As the amount of spray volume per acre decreases, the importance of accurate calibration and uniform application increases. Check the spray daily to insure proper calibration and uniform application. Avoid boom overlaps that will increase rates above those recommended.

Band Application

For band application, use the following formula to calculate the required amount of product per acre.

\[
\text{Band Width (inches)} \times \text{Broadcast rate per acre} = \text{Amount required per acre}
\]

Chemigation

Oryzalin 4 A.S. may be applied through properly equipped chemigation systems for weed control in fruit and nut orchards or vineyards. Read and follow all label instructions outlined below concerning chemigation before applying Oryzalin 4 A.S. by this method.

Chemigation Use Precautions: Apply this product only through solid set or hand move systems designed to distribute sprinkler irrigation beneath the tree canopy. Solid set systems utilizing tall risers for overhead application are excluded, except for dormant season applications. Do not apply this product during the growing season to fruit or nut trees. Do not apply this product over underground irrigation systems or other utility lines. 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.

If you have questions about calibration you should contact state extension specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

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

Sprinkler Chemigation Directions: The following directions must be followed for all recommended sprinkler irrigation systems (solid set and hand move systems).

1) 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 back-flow.
Weeds and Grasses Controlled

Chemigation System Calibration: Sample calculation for use of Oryzalin 4 A.S. in a chemigation system:

- Assume, in this example, 35 acres are to be covered by a chemigation treatment.
- Product required, assuming 1 quart per acre is 35 quarts (8.75 gallons).
- Prepare a mixture containing 1 part water and 1 part Oryzalin 4 A.S. by adding 8.75 gallons of product to the supply tank containing an equal amount of water (total volume = 17.5 gallons).
- Adjust the injection system to deliver 17.5 gallons during the time required to apply 1 inch of water to 35 acres.
- If the irrigation system requires 5 hours to apply 1 inch of water to 35 acres, the injection rate is 3.5 gallons per hour and is calculated as follows:

\[ \text{Injection Rate} = \frac{17.5 \text{ gallons}}{5 \text{ hours}} = 3.5 \text{ gallons/hour} \]

Proper calibration requires the injection pump to be adjusted to deliver 7.47 fl oz per minute and is calculated as follows:

\[ 448 \text{ fl oz/hr/60 min per hr} = 7.47 \text{ fl oz/min} \]

Chemigation Mixing Directions: The injection mixture (slurry) with minimum volume may be prepared by adding the required amount of Oryzalin 4 A.S. to an equal amount of water in the injection tank (ratio Oryzalin 4 A.S. to water = 1:1). Meter the mixture into the irrigation system during the entire irrigation period. Additional dilution of Oryzalin 4 A.S. may be necessary for accurate calibration of equipment designed to deliver a larger injection volume per hour. Maintain supply tank agitation throughout the irrigation period.

Undiluted Oryzalin 4 A.S. should not be injected into chemigation systems.

Approved Crops

Tree and Vine Crops—Citrus (except CA), Stone Fruit, Pome Fruit (except CA), and Nut Trees, Berries (except CA) and Vineyards (Non-Bearing and Bearing)

Apply Oryzalin 4 A.S. as a preemergence treatment to control annual grasses and broadleaf weeds listed in “General Information” section.

Crop Listing: Oryzalin 4 A.S. may be used in the following crop groupings:

### Annual Grasses

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley, little</td>
<td>Hordeum pusillum</td>
</tr>
<tr>
<td>Barnyardgrass (water grass)</td>
<td>Echinochloa crus-galli</td>
</tr>
<tr>
<td>Bluegrass, annual (poa)</td>
<td>Poa annua</td>
</tr>
<tr>
<td>Brachiaria (signalgrass)</td>
<td>Brachiaria sp.</td>
</tr>
<tr>
<td>Browntop panicum</td>
<td>Panicum fasciculatum</td>
</tr>
<tr>
<td>Crabgrass (large crabgrass)</td>
<td>Dactylolochenum aegyptium</td>
</tr>
<tr>
<td>crowfootgrass</td>
<td>Echinochloa crus-galli</td>
</tr>
<tr>
<td>cupgrass</td>
<td>Bromus tectorum</td>
</tr>
<tr>
<td>downy brome</td>
<td>Panicum dichotomiflorum</td>
</tr>
<tr>
<td>Fall panicum (spreading panicgrass)</td>
<td>Setaria sp.</td>
</tr>
<tr>
<td>foxtails (bottlegrass)</td>
<td>Echinochloa crus-galli</td>
</tr>
<tr>
<td>(bristlegrass)</td>
<td>Brachiaria sp.</td>
</tr>
<tr>
<td>(giant foxtail)</td>
<td>Panicum dichotomiflorum</td>
</tr>
<tr>
<td>(green foxtail)</td>
<td>Setaria sp.</td>
</tr>
<tr>
<td>(pigweed)</td>
<td>Panicum dichotomiflorum</td>
</tr>
<tr>
<td>(robust foxtail)</td>
<td>Panicum dichotomiflorum</td>
</tr>
<tr>
<td>(yellow foxtail)</td>
<td>Panicum dichotomiflorum</td>
</tr>
<tr>
<td>gainegrass (narrowleaf panicum)</td>
<td>Elesine indica</td>
</tr>
<tr>
<td>goosegrass</td>
<td>Elesine indica</td>
</tr>
<tr>
<td>johnsongrass (seedling only)</td>
<td>Sorghum halepense</td>
</tr>
<tr>
<td>junglerice</td>
<td>Echinochloa crus-galli</td>
</tr>
<tr>
<td>lovegrass, Mexican</td>
<td>Eragrostis mexicana</td>
</tr>
<tr>
<td>lovegrass, orcutt</td>
<td>Eragrostis curvataana</td>
</tr>
<tr>
<td>oat, wild</td>
<td>Avena fatua</td>
</tr>
<tr>
<td>ryegrass, annual (Italian)</td>
<td>Lolium multiflorum</td>
</tr>
<tr>
<td>sandbur, field</td>
<td>Cenchrus incertus</td>
</tr>
<tr>
<td>sprangletop, red</td>
<td>Leptochloa filiformis</td>
</tr>
<tr>
<td>Texas panicum (buffalograss)</td>
<td>Panicum texanum</td>
</tr>
<tr>
<td>(Coloradograss)</td>
<td>Panicum capillare</td>
</tr>
</tbody>
</table>

### Annual Broadleaf Weeds

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpet weed</td>
<td>Mollugo verticillata</td>
</tr>
<tr>
<td>Chickweed</td>
<td>Stellaria media</td>
</tr>
<tr>
<td>Cudweed</td>
<td>Gnaphalium chilense</td>
</tr>
<tr>
<td>Fiddleneck, coast</td>
<td>Amarantha intermedia</td>
</tr>
</tbody>
</table>

### Citrus Fruits (except CA)

<table>
<thead>
<tr>
<th>Name</th>
<th>Sowthistle, annual Sonchus oleraceus</th>
</tr>
</thead>
</table>

### Pome (except CA) & Stone Fruits

<table>
<thead>
<tr>
<th>Name</th>
<th>Orange, sweet Citrus Fruits</th>
</tr>
</thead>
</table>

### Tree Nuts such as:

<table>
<thead>
<tr>
<th>Name</th>
<th>Walnut, Carya illinoincis</th>
</tr>
</thead>
</table>

### Berries (except CA) Such as:

<table>
<thead>
<tr>
<th>Name</th>
<th>Blueberry, boysenberry</th>
</tr>
</thead>
</table>

### Vineyards such as:

<table>
<thead>
<tr>
<th>Name</th>
<th>Grape, Vitis spp.</th>
</tr>
</thead>
</table>

### Crop Application Rates

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Length of Control</th>
<th>Oryzalin (qt/acre)</th>
<th>Minimum Time Between Applications (months)</th>
<th>Total Amount Allowed Per Year (qt/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Soil</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Textures</td>
<td>Short Term</td>
<td>2</td>
<td>2.5</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>(2-4 months)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long Term</td>
<td>4</td>
<td>2.5</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>(6-8 months)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(8-12 months)</td>
<td>6</td>
<td>2.5</td>
<td>12</td>
</tr>
</tbody>
</table>

*Except CA
**Do not apply Oryzalin 4 A.S. to lowbush blueberries.

In addition to the crops within crop groupings listed above, Oryzalin 4 A.S. may be used in the following crops (except CA): avocado, fig, guava, kiwi fruit, olive, papaya, and pomegranate.
Management of Orchard and Vineyard Middle Strips with Reduced Rates

In areas between tree or vine rows apply 1-2 quarts/acre of Oryzalin 4 A.S. for temporary suppression of weed growth in spring and summer months. Include a burndown treatment if existing weeds are present. Adjust rates of repeat applications as necessary to achieve re-establishment of desired vegetation during winter months.

Chemigation

Oryzalin 4 A.S. may be applied through properly equipped chemigation systems for weed control in fruit and nut orchards and vineyards. Refer to “Chemigation” in “General Information” for use directions. Do not apply Oryzalin 4 A.S. by chemigation unless use directions are carefully followed.

Apply Oryzalin 4 A.S. by chemigation prior to weed germination or immediately after existing weeds have been controlled. Control existing unwanted vegetation by tillage or with a contact or translocated herbicide. Use broadcast application rates recommended for Oryzalin 4 A.S. alone. Apply in sprinkler irrigation equal to 1/2 to 1 inch of water on medium to fine textured or high organic matter soils.

Oryzalin 4 A.S. Tank Mix Recommendations

To broaden the spectrum of weed control, Oryzalin 4 A.S. may be applied in tank mix combination with labeled rates of other herbicide products, including, but not limited to Goal, Gramoxone Super, Princep (Simazine), Roundup/glyphosate, or Solciam herbicide. Performance and risk of carryover from tank mixed products used in combination with Oryzalin 4 A.S. at recommended rates is the same as when each product is used separately.

Non-Bearing Tree and Vine Crops: For additional broad spectrum control of broadleaf weeds in non-bearing fruit and nut trees, berries, and vineyards, Oryzalin 4 A.S. may be applied in tank mix combination with labeled rates of Gallery 75 Dry Flowsable herbicide. Non-bearing crops are defined as plants that will not bear fruit for at least one year after treatment. Follow tank mixing instructions in the “Mixing Directions” section of this label when mixing Oryzalin 4 A.S. with other products.

Users should always consult the manufacturer’s label for the products to be tank mixed with Oryzalin 4 A.S. for specific information on use rates, additional weeds controlled, rotational crop restrictions or risk of carryover, special tank mix instructions, additional use directions, precautions and limitations.

Christmas Tree Plantations

Oryzalin 4 A.S.—alone

Apply Oryzalin 4 A.S. as a directed spray to the soil surface or as an overtop spray to established plantings of field grown Christmas tree species, including fir (Abies spp.), pine (Pinus spp.), and spruce (Picea spp.). Do not apply to Douglas-fir (Pseudotsuga menziesii).

Do not apply to seedbeds or seedling transplant beds. Apply only to established plantings. Established plantings are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation. Follow all instructions provided in the “General Information” section of this label.

Broadcast Application Rates

<table>
<thead>
<tr>
<th>Length of Control</th>
<th>Amount of Oryzalin (qt/acre)</th>
<th>Minimum Time Between Applications (months)</th>
<th>Total Amount Allowed Per Year (qt/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-4 months</td>
<td>2</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>4-8 months</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

Tank Mix Combinations

Tank mix combinations of Oryzalin 4 A.S. plus other labeled herbicides may be used as directed sprays or overtop sprays in established Christmas tree plantings. When applied according to use directions, these tank mixes will provide control of susceptible weed species listed on the respective product labels. Refer to label of the product to be tank mixed with Oryzalin 4 A.S. for specific use directions, precautions and limitations before use.

Oryzalin 4 A.S. Herbicide Plus Roundup/Glyphosate Herbicide: Apply tank mix combinations of Oryzalin 4 A.S. plus Roundup only as directed sprays in Christmas tree plantings. When applied according to use directions, Oryzalin 4 A.S. plus Roundup will provide postemergence control of susceptible weed species listed on the label for Roundup and residual preemergence control of susceptible weed species listed on the label for Oryzalin 4 A.S. Refer to the label for Roundup for specific use directions, precautions and limitations before use.

Precautions:

• Do not apply sprays containing Roundup over the top of Christmas tree plantings
• Extreme care must be exercised to avoid contact of spray containing Roundup with foliage and stems of Christmas trees or severe damage or death may result.

IMPORTANT INFORMATION, READ BEFORE USING PRODUCT.

IMPORTANT: Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container immediately for a complete refund.

LIMITED WARRANTY, TERMS OF SALE, AND LIMITATION OF LIABILITY

Upon purchase or use of this product, purchaser and user agree to the following terms:

Warranty: FarmSaver.com, LLC (the “Company”) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the provisions of this warranty. The Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose; no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company’s behalf.

Terms of Sale: The Company’s directions for use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company’s control. All such risks are assumed by the user.

Limitation of Liability: The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. Under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income, and any such claims are hereby waived. Some states do not allow the exclusion or limitation of incidental or consequential damages. The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

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