Simazine 90DF
Herbicide

For weed control in certain crops and ornamental plantings.

ACTIVE INGREDIENT:
Simazine .................................................. 90.0%
OTHER INGREDIENTS: ................................ 10.0%
TOTAL: .................................................. 100.0%

This product is a water-dispersible granule.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See FIRST AID Below

EPA Reg. No. 19713-252 Net Content: 25 Lbs. (11.34 Kg)
EPA Est. No. 19713-MS-1

FIRST AID

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 INHALED:
• Move person to fresh air.
• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
• Call a poison control center or doctor for further treatment advice.

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 or convulsing person.

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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

ENVIRONMENTAL HAZARDS

Simazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Simazine has been found in groundwater. Users are advised not to apply Simazine to 

Sand and Loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable; i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater.

Product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs.

If this product is applied to highly erodible land, the 66 foot buffer or 200 foot buffer is required. If this product is applied to surface water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater.

Product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with Grass of other suitable crops.

MANUFACTURED BY: Drexel Chemical Company
P.O. Box 13327, Memphis, TN 38113-0327
SINCE 1972

252SP-0411*

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**AGRICULTURAL USE REQUIREMENTS (Cont.)**

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, shoes plus socks and chemical-resistant gloves made of any waterproof material.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the WPS for Agricultural Pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Do not enter or allow others (including children or pets) to enter treated areas until sprays have dried.

**USE INFORMATION**

**IMPORTANT:** Read the entire “DIRECTIONS FOR USE” and the “WARRANTY—CONDITIONS OF SALE” before using this product.

Apply this herbicide before weeds emerge or after removal of weed growth. This product controls a wide variety of annual Broadleaf and Grass weeds when used at selective rates in agricultural crops and ornamental plantings. Where a range of application rates is given, use the low rate on coarser textured soil and soil lower in organic matter. Use the high rate on Finer-textured soil and soil higher in organic matter. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result. This product enters weeds mainly through their roots, moisture is needed to move it into the root zone. Very dry soil conditions and lack of rainfall following application may necessitate shallow cultivation. This product is non-corrosive to equipment, non-flammable and has low electrical conductivity.

This product is a Group 5 Herbicide. Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by this herbicide. Where this is known or suspected and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of this product in registered combinations or in sequence with other registered herbicides which are not triazines. If only resistant biotypes are expected to be present, use a registered herbicide which is not solely a Group 5 Herbicide. Consult with your State Agricultural Extension Service for specific recommendations.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

For Christmas trees, do not enter or allow worker entry into treated areas during the REI of 48 hours. For all other crops and use patterns, do not enter or allow worker entry into treated areas during the REI of 12 hours.

**Exception:** If the product is soil-injected or soil-incorporated, the WPS, under certain circumstances, allows workers to enter the treated area; there will be no contact with anything that has been treated.

(Continued)
Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 16 mesh or coarser. Do not place a screen in the recirculation line. Use 50 mesh or coarser screens between the pump and boom, and where required, at the nozzles. Check nozzle manufacturer’s recommendations. For band applications, calculate amount to be applied per acre as follows:

\[
\text{band width in inches} \times \text{broadcast rate} = \text{amount needed} \, \text{row width in inches} \, \text{per acre}
\]

Aerial Application: AERIAL APPLICATION IS PROHIBITED.

**SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, chemigation) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

**Wind Speed**

Do not apply at wind speeds greater than 10 mph.

** Droplet Size**

Apply as a coarse or coarser spray (ASAE standard 572).

**Release Height**

For groundboom applications, apply with a nozzle height of no more than 4 feet above the ground or crop canopy.

**MIXING PROCEDURES (All Uses):**

1. Be sure sprayer is clean and not contaminated with any other materials or crop injury or sprayer clogging may result.
2. Fill tank one-fourth full with clean water, nitrogen solution or complete fluid fertilizer.
3. Start agitation.
4. Be certain that the agitation system is working properly and creates a ripping or rolling action on the liquid surface.
5. Pour product directly from bag into tank.
6. Continue filling tank until 90% full. Increase agitation, if necessary, to maintain surface action.
7. Add tank-mix herbicide(s) after this product is thoroughly suspended.
8. Finish filling tank. Maintain agitation to avoid separation of materials. 9. Empty tank as completely as possible before refilling to prevent buildup of emulsifiable concentrate residue from possible tank-mix herbicides. 10. If an emulsifiable concentrate film starts to build up in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture probably can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility:
   a. slurry the dry herbicide(s) in water before additions or
   b. add one-half of the compatibility agent to the fertilizer and the other half to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If still incompatible, do not use the materials mixed in the same spray tank.

**PERENNIAL CROP REPLANTING**

To avoid crop injury, observe the following precautions: If replanting Perennial crops, do not apply this product in the year preceding planting of these crops.

**FRUIT AND NUT CROPS**

Apply the spray to the orchard or vineyard floor avoiding contact with fruit, foliage or stems. Specified rates are based on broadcast treatment. For band applications or spot applications around Fruit or Nut trees, reduce the broadcast rate of this product and water per acre in proportion to the area actually sprayed.

**Use Precautions and Restrictions (All Fruit and Nut Crops).**

1. Do not apply more than twice per calendar year. 2. Do not apply on soil with less than 1% organic matter. 3. Do not apply on soil with less than 1% organic matter. 4. Do not apply on soil with less than 1% organic matter.

**Use Precautions and Restrictions (All Fruit and Nut Crops).**

- Apply up to 4.4 pounds of this product per acre either before or after harvest.

**AVOCADOS (CA and FL Only)**

Apply 2.2 to 4.4 pounds of this product per acre either before or after harvest.

**BLUEBERRIES AND CANEBERRIES**

Apply 2.2 to 4.4 pounds of this product per acre either before or after harvest.

**CRANBERRIES**

Apply 2.2 to 4.4 pounds of this product per acre either before or after harvest.

**Other areas:** Apply 2.2 pounds per acre before Spring growth begins.

**Use Precautions and Restrictions (All Crop and Nut Crops).**

- Apply up to 4.4 pounds of this product per acre either before or after harvest.

**INCOMPATIBILITY TEST:**

To determine the tank-mix compatibility of this product with liquid fertilizer, crop oil, spreaders or recommended pesticides, use this test method. Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture probably can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility:

- slurry the dry herbicide(s) in water before additions or
- add one-half of the compatibility agent to the fertilizer and the other half to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If still incompatible, do not use the materials mixed in the same spray tank.

For a spray volume other than 25 gallons per acre, change the teaspoons added to each jar as follows:

- **Dry Herbicides:** For each pound per acre, add 1.5 tsps. to each jar. Fluff up wettable powder products before measuring.
- **Liquid Herbicides:** For each pt. per acre, add one-half tsp. to each jar.

The appropriate amount of herbicides for this test follows (assuming a spray volume of 25 gals. per acre):

<table>
<thead>
<tr>
<th>Herbicide Type</th>
<th>Amount Added per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Herbicides</td>
<td>1.5 tsp. per pt.</td>
</tr>
<tr>
<td>Liquid Herbicides</td>
<td>0.5 tsp. per pt.</td>
</tr>
</tbody>
</table>

For a spray volume other than 25 gallons per acre, change the teaspoons added to each jar as follows:

\[
\text{desired gallons of spray volume per acre} \times \text{number of teaspoons given above} = \text{teaspoons to add to each jar}
\]

After adding all ingredients, put lids on and tighten. Shake jars vigorously for one minute. Let the mixtures stand for 15 minutes and then look for separation, large flakes, precipitates, grease, gels, medium to heavy oily film on the jar or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture probably can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility:

- slurry the dry herbicide(s) in water before additions or
- add one-half of the compatibility agent to the fertilizer and the other half to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If still incompatible, do not use the materials mixed in the same spray tank.
this product) per calendar year. 2) Do not apply more than once per calendar year.

FILBERTS
Apply 2.2 to 4.4 pounds of this product per acre in the Fall or apply a split application of 2.2 pounds per acre in the Fall plus 2.2 pounds per acre in the Spring.

Use Precautions and Restrictions: 1) Do not apply more than 4 pounds a.i. (4.4 lbs. of this product) per acre per calendar year. 2) Do not apply more than twice per calendar year. 3) If trees are planted on a hillside, excessive soil erosion may result from the elimination of weeds. 4) Do not apply when Nuts are on the ground during the harvest period or illegal residues may result.

GRAPEFRUIT, LEMONS, ORANGES
AZ (Lemons and Oranges only): Apply a split application of 1.75 pounds of this product per acre in the Spring plus 1.75 pounds in the Fall.

Use Precautions and Restrictions: 1) Do not apply more than 1.6 pounds a.i. (1.75 lbs. of this product) per acre per application. 2) Do not apply more than 3.2 pounds a.i. (3.5 lbs. of this product) per acre per calendar year. 3) This product can be applied once during the Fall and once during the Spring.

CA (Grapefruit, Lemons, Oranges): Apply 2.2 to 4.4 pounds of this product per acre in a single application or apply 2.2 pounds per acre in the Fall and 2.2 pounds per acre in the Spring.

Use Precautions and Restrictions: 1) Do not apply more than 4 pounds a.i. (4.4 lbs. of this product) per acre per calendar year. 2) Do not apply more than twice per calendar year. 3) Do not use in vineyards established less than three years or crop injury may occur.

OLIVES
Apply 2.2 to 4.4 pounds of this product per acre following grove preparation in the Fall. Repeat annually in mid-Winter.

Use Precautions and Restrictions: 1) Do not apply more than 4 pounds a.i. (4.4 lbs. of this product) per acre per calendar year. 2) Do not apply more than once per calendar year.

PEACHES, PLUMS, SWEET CHERRIES
Apply 1.75 to 4.4 pounds of this product per acre in late Fall to early Spring prior to weed emergence.

Use Precautions and Restrictions: 1) Peaches: Use only in AR, LA, MO, OK, TX and states East of the Mississippi River to avoid crop injury. For CA, see specific directions in the section “ALMONDS, NECTARINES AND PEACHES (CA ONLY)”. Do not apply more than 4 pounds a.i. (4.4 lbs. of this product) per acre per calendar year. Do not apply more than once per calendar year. 2) Plums and Sweet Cherries: Use only in MO and States East of the Mississippi River, except TN to avoid crop injury. Do not apply more than 4 pounds a.i. (4.4 lbs. of this product) per acre per calendar year. Do not apply more than once per calendar year.

PECANS
Apply 2.2 to 4.4 pounds of this product per acre before weeds emerge in the Spring.

Use Precautions and Restrictions: 1) Do not apply more than 4 pounds a.i. (4.4 lbs. of this product) per acre per calendar year. 2) Do not apply more than once per calendar year. 3) Do not use on soil with less than 1% organic matter or on poorly drained soil. 3) Do not treat areas adjacent to a Fall application of this product if this treatment was used in the Spring prior to weed emergence.

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may extend. 6) Treated areas may be planted to Citrus trees one year after application. 7) Do not rotate to other crops within two years after application.

To avoid illegal residues, apply only once per year and avoid contact with foliage and fruit with spray or mist.

**TANK-MIXTURE WITH GRAMOXONE**: This combination is effective in the following Fruit and Nut crops for kill of existing vegetation and for residual control of the annual Broadleaf and Grass weeds claimed for this product applied alone. This combination is also effective for top-kill and suppression of Perennial weeds. In FL, this mixture may be applied in Spring or Fall to emerged weeds.

**Use this tank-mixture on the following crops:**

<table>
<thead>
<tr>
<th>Almonds (CA Only)</th>
<th>Grapefruit (CA &amp; TX Only)</th>
<th>Oranges*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apples</td>
<td>Grapes</td>
<td>Peaches**</td>
</tr>
<tr>
<td>Avocados (CA &amp; FL Only)</td>
<td>Lemons</td>
<td>Pears</td>
</tr>
<tr>
<td>Cherries (Tart &amp; Sweet)</td>
<td>Macadamia nuts**</td>
<td>Peanuts*</td>
</tr>
<tr>
<td>Filberts</td>
<td>Olives</td>
<td>Plums**</td>
</tr>
</tbody>
</table>

**SPECIFIC DIRECTIONS:** Apply the rate given under the appropriate crop on this label plus the specified labeled rate of Gramoxone in 50 to 200 gals. (30 to 50 gals. for Pecans) of water per acre to the orchard floor avoiding contact with fruit, foliage or stems. Add a non-ionic surfactant at 0.5 pt. per 100 gals. of spray. Apply when weeds are succulent and new growth is 1 to 6 inches tall. For mature Woody weeds or difficult to control Perennial weeds, retreat or spot treat with Gramoxone if regrowth occurs. Add this product to the spray tank first (refer to “MIXING PROCEDURES” section of this label), then add Gramoxone and add the surfactant last. Provide constant agitation during mixing and application to keep the mixture in suspension. Refer to the labels of both products for further directions, specific weeds controlled and precautions and limitations on each crop.

1) Apply the tank-mix only once per year. 2) Use shield for young trees or vines.

**TANK-MIXTURE WITH IMITATOR® PLUS, OR ROUNDP** OR TOUCHDOWN® BRAND HERBICIDES

This tank-mixture is effective in Grape vineyards and in the following bearing or non-bearing tree crops for control of existing vegetation and for residual control of the annual Broadleaf and Grass weeds claimed for this product applied alone. This combination is also effective for partial control of perennial weeds contacted by the spray mixture during application.

**Use this tank-mixture on the following crops:**

<table>
<thead>
<tr>
<th>Almonds** (CA Only)</th>
<th>Filberts**</th>
<th>Oranges***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apples*</td>
<td>Grapefruit*** (CA, FL &amp; TX)</td>
<td>(AZ, CA, FL &amp; TX)</td>
</tr>
<tr>
<td>Avocados* (CA &amp; FL Only)</td>
<td>Grapes*</td>
<td>Peaches****</td>
</tr>
<tr>
<td>Cherries (Tart &amp; Sweet****)</td>
<td>Lemons*</td>
<td>Pears**</td>
</tr>
<tr>
<td></td>
<td>Macadamia nuts**</td>
<td>Pecans**</td>
</tr>
</tbody>
</table>

**SPECIFIC DIRECTIONS:** Use the specified rate given elsewhere on this label for this product applied alone to the crop being treated. Add to the spray tank the specified rate of Roundup, Imitator Plus or Touchdown brand product per acre depending on weeds present and their growth stage. Also, add an agriculturally approved non-ionic surfactant at 0.5% by volume of spray solution. Apply the mixture in 10 to 40 gals. of water per acre as a post-emergence spray to the weeds at the appropriate weed growth stage given on the Roundup or Imitator Plus label. Add this product to the spray tank first, then add Roundup, Imitator Plus or Touchdown brand herbicides. Provide constant agitation during mixing and application to keep the mixture in suspension. Refer to “APPLICATION PROCEDURES” section of this label for further directions. Refer to labels of both herbicides for further directions, specific weeds controlled, precautions and limitations on each crop.

**USE PRECAUTIONS AND RESTRICTIONS (To avoid crop injury):** Take extreme care to avoid contact of herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit, or other parts of trees or vines. Observe use precautions on both this product and Roundup or Imitator Plus or Touchdown labels for each crop involved.

For improved control of such weeds as Clover, Cutleaf evening primrose, Dandelion, Henbit, Horseweed or Marestail, Lambsquarters and Puncturevine, apply this product in tank-mixture with Soloricam DF on the following crops:

| Grapefruit | Lemons | Oranges |

**SPECIFIC DIRECTIONS:** Apply the specified rate of this product from the use section on this label plus the specified rate of Soloricam DF Herbicide (78.6% active ingredient) in 20 to 100 gals. of water per acre. This product plus Soloricam may be applied in tank-mixture with Gramoxone, or Roundup or Imitator Plus. Follow the labeled directions and restrictions of use on labels of herbicides used in mixtures with this product.

**Use Precautions and Restrictions (To avoid crop injury):** Keep this product plus Soloricam mixtures from contacting foliage, fruits and stems of Citrus trees during spraying.

**TANK-MIXTURE WITH SURFLAN®**

**Use this tank-mixture on the following crops for pre-emergence control of all weeds claimed on both labels:**

| Almonds | Apples | Avocados | Cherries | Lemons | Oranges | Pecans | Plums | Walnuts |

**SPECIFIC DIRECTIONS:** Apply the rate given under the appropriate crop on this label plus the specified rate of Surfian 75W or Surfian A.S. in 20 to 40 gals. of water per acre. Refer to the Surfian 75W or Surfian A.S. label for complete tank-mix directions.

Observe all precautions and limitations on this label and Surfian labels.

**FIELD AND FORAGE CROPS**

**CORN (Field, Sweet)**

Apply a maximum of 2 pounds. a.i. (2.2 lbs. of this product) per acre as a single pre-emergence application on soils that are not highly erodible or on highly erodible soils, as defined by the Natural Resources Conservation Service, if at least 30% of the soil is covered with plant residues. If a second treatment is required following an
earlier herbicide application, the total Simazine applied may not exceed 2.5 pounds a.i. (2.7 lbs. of this product) per acre per calendar year. Apply a maximum of 1.6 pounds a.i. (1.7 lbs. of this product) as a single pre-emergence application on highly erodible soils if < 30% of the soil is covered with plant residues.

**Pre-grazing/Pre-Harvest Interval:**
1. Field corn – 80 days
2. Sweet corn – 45 days

Nitrogen solutions or complete fluid fertilizers may replace all or part of the water as a carrier in the spray. Determine the physical compatibility of this product with fertilizer before use.

Refer to the "USE INFORMATION" section of this label for a compatibility test procedure. Do not apply after Corn has emerged as there is danger of liquid fertilizers causing crop injury.

**PRE-EMERGENCE:** Apply before weeds and Corn emerge. Use the appropriate rate specified above.

**PRE-PLANT:** Apply in the Spring after plowing as broadcast at the appropriate rate specified above. Apply before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. Best results will be obtained when this product is applied within 2 weeks before planting. Under dry weather conditions, pre-plant applications may give better weed control. If weeds develop, particularly under relatively dry conditions, a shallow cultivation will generally result in better weed control.

**To control Quackgrass:** Apply this product as broadcast per acre using the rate specified above during the Fall. Plow two to three weeks later, or if erosion is a problem, delay plowing until Spring.

**WINTER ANNUAL BROADLEAF CONTROL**

**PRE-EMERGENCE FALL APPLICATION:** For pre-emergence control of Winter annual weeds such as Annual bluegrass, Common chickweed, Downy brome, Henbit, Shepherdspurse, Tansy mustards, Wild mustard and others, broadcast 1.1 pounds of this product per acre of this product after harvest of the preceding crop and prior to weed emergence on land to be planted to Corn the following year. A tillage operation may precede the application. Do not apply to frozen ground. If this product is used in the Fall Corn weed program, do not exceed 1.67 pounds of this product pre-emergence in the Spring.

**Use Precautions and Restrictions:**
1. Do not apply more than 2.77 pounds of this product per acre to Corn per calendar year. 2. Do not rotate to any crop except Corn until the following year or injury may occur. 3. After harvest, plow and thoroughly till the soil in Fall or Spring to minimize possible injury to Spring-seeded rotational crops, regardless of the rate used. 4. Do not apply pre-plant incorporated in Corn in the High Plains and Intermountain areas of the West (including Central and Western KS, Western NE, Western OK and the Panhandle of TX) where rainfall is sparse and erratic or where irrigation is required. 5. In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use this product to control weeds in Corn only when Corn is to follow Corn or when a crop of untreated Corn is to precede another rotational crop. 6. Injury may occur to Soybeans planted in North-Central and Northwest IA, South-Central and Southwest MN, Northeast NE, Southeast SD and other areas the year following application on soils having a calcareous surface layer. 7. Do not plant Sugar beets, Tobacco, Vegetables (including Dry beans), Spring-seeded small grains or Small-seeded legumes and Grasses the year after an application or injury may occur.

**Note:** Do not graze treated areas or illegal residues may result.

**TANK-MIXTURES ON CORN**

**ATRAZINE:** Use this product in a pre-plant or pre-emergence tank-mixture with Atrazine 90DF, Atrazine 4L or Atra-5™ for control of many annual weeds, including Carpetweed, Crabgrass, Fall panicum, Foxtail, Lambsquarters, Morningglory, Pigweed, Ragweed and Velvetleaf.

When tank-mixing or sequentially applying Simazine and/or Atrazine or products containing either active ingredient to Corn, the total pounds of Simazine and/or Atrazine applied must not exceed 2.5 pounds a.i./acre per calendar year.

Refer to the Atrazine label for complete directions. Also, refer to the Atrazine label and the “CORN” section of this label for precautions and limitations.

**ERADICANE® OR RAZENCANE®:** Use in a pre-plant incorporated tank-mixture for control of all weeds claimed on both this product and Eradicane or Razencane labels including partial control (suppression) of Shattercane (Wild cane). Fluid fertilizer may replace all or part of the water in the spray. Check the physical compatibility of mixture with fertilizer before use. Refer to the “USE INFORMATION” section of this label for a compatibility test procedure. Use a minimum of 20 gallons of spray volume per acre. Refer to the Eradicane or Razencane label for incorporation directions. Use the higher rate of this product on Fine textured soil and where heavy Broadleaf infestations are expected. Use the higher rate of Eradicane or Razencane for heavy Bermudagrass and Nutsedge infestations. For partial control (suppression) of Shattercane, broadcast and incorporate immediately before planting the specified rate of this product as listed in the use direction by soil texture for Corn plus the specified label rate of Eradicane or Razencane per acre. For control of the other weeds claimed on both labels, broadcast and incorporate the specified rate of this product as listed in the use direction by soil texture for Corn plus the specified label rate of Eradicane or Razencane per acre. Observe all precautions and limitations on this product and Eradicane or Razencane labels.

**GRAMOXONE:** Use in a tank-mixture where Corn will be planted directly over the cover crop, established sod or previous crop residues. This combination controls existing vegetation and provides residual control of the annual Broadleaf and Grass weeds listed under “USE INFORMATION”.

Add this product to the spray tank, mix thoroughly with water and then add Gramoxone and a non-ionic surfactant. Provide constant agitation during mixing and application to keep the mixture in suspension.

Apply the specified rate of this product as listed in the use direction by soil texture for Corn plus the specified label rate of Gramoxone in 20 to 40 gallons of water per acre. Do not tank-mix this product with other herbicides for use in a spray the same day.

After further information, see “USE INFORMATION”, caution and warning statements, precautions and notes on this product label and the Gramoxone labels.

**SUTAN®**: Use in a pre-plant incorporated tank-mixture for control of all weeds claimed on both this product and Sutan+ labels including partial control (suppression) of Shattercane (Wild cane). Fluid fertilizer may replace all or part of the water in the spray. Check the physical compatibility of mixture with fertilizer before use. Refer to the “USE INFORMATION” section of this label for a compatibility test procedure. Use a minimum of 20 gallons of spray volume per acre.

Refer to the Sutan+ label for incorporation directions. Use the higher rate of this product on Fine textured soil and where heavy Broadleaf infestations are expected. For partial control (suppression) of Shattercane, broadcast and incorporate immediately before planting, the specified rate of this product as listed in the use direction by soil texture for Corn plus the specified label rate of Sutan+ 6.7E per acre. For control of the other weeds claimed on both labels, broadcast and incorporate 1.1 to 2.2 pounds of this product plus the specified label rate of Sutan+ 6.7E per acre. Observe all precautions and limitations on this product and Sutan+ labels.

**NURSERIES, CHRISTMAS TREE PLANTINGS, SHELTERBELT**

**NURSERIES** (See List Below): Apply 2.2 to 3.3 pounds of this product in at least 25 gallons of water per acre after transplanting.

**Use Precautions and Restrictions:**
1. Do not apply more than 3 pounds a.i. (3.3 lbs. of this product) per acre per calendar year. 2. Do not apply more than once per calendar year. 3. Do not apply for at least one year after transplanting to avoid plant injury.

**CHRISTMAS TREE PLANTINGS AND SHELTERBELTS** (See List Following): Remove weeds before fertilization. Apply 2.2 to 4.4 pounds in at least 25 gallons of water per acre after transplanting. Use the same rate for annual maintenance applications.

**For Quackgrass control:** Apply 4.4 pounds of this product per acre in the Fall or apply a split application of 2.2 pounds per acre in the Fall plus 2.2 pounds per acre in early Spring, after Quackgrass begins growth.

**Use Precautions and Restrictions:**
1. Do not apply more than 4 pounds a.i. (4.4 lbs. of this product) per acre per calendar year. 2. Do not apply more than twice per calendar year. 3. Do not use on seedbeds or cutting beds. 4. In CA, OR and WA do not apply to Christmas trees or Shelterbelts sooner than one year after transplanting. In other areas, do not apply to Christmas trees or Shelterbelt transplants less than two years of age. 5. Do not use until soil is firmly settled around roots. 6. Do not apply more than once a year, except as directed for Quackgrass control.
Apply this product to the following species of trees and shrubs, as specified above:

<table>
<thead>
<tr>
<th>Family</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conifers</td>
<td></td>
</tr>
<tr>
<td>Arborvitae</td>
<td>Knobcone pine*</td>
</tr>
<tr>
<td>Austrian pine</td>
<td>Lodgepole pine</td>
</tr>
<tr>
<td>Balsam fir</td>
<td>(Shore pine)</td>
</tr>
<tr>
<td>Bishop pine*</td>
<td>Monterey pine*</td>
</tr>
<tr>
<td>Blue spruce</td>
<td>Mucho pine</td>
</tr>
<tr>
<td>Douglas fir</td>
<td>Norway spruce</td>
</tr>
<tr>
<td>Fraser fir</td>
<td>Red cedar</td>
</tr>
<tr>
<td>Hemlock</td>
<td>Red pine (Norway pine)</td>
</tr>
<tr>
<td>Juniper</td>
<td>Red spruce</td>
</tr>
<tr>
<td></td>
<td>Scotch pine</td>
</tr>
<tr>
<td></td>
<td>White cedar</td>
</tr>
<tr>
<td></td>
<td>White fir</td>
</tr>
<tr>
<td></td>
<td>White pine</td>
</tr>
<tr>
<td></td>
<td>White spruce</td>
</tr>
<tr>
<td></td>
<td>Yew</td>
</tr>
<tr>
<td></td>
<td>(Taxus spp.)</td>
</tr>
<tr>
<td>Deciduous Trees and Woody Ornamentals</td>
<td></td>
</tr>
<tr>
<td>American elm</td>
<td>Dogwood</td>
</tr>
<tr>
<td>Barberry</td>
<td>Eucalyptus</td>
</tr>
<tr>
<td>Bottle brush*</td>
<td>Holly (flex spp.) (max. 3.3 lbs./Ac.)</td>
</tr>
<tr>
<td>Boxelder</td>
<td>Honey locust</td>
</tr>
<tr>
<td>Bush honeysuckle</td>
<td>Oleander*</td>
</tr>
<tr>
<td>Caragana</td>
<td>Oregon grape (Mahonia spp.)</td>
</tr>
<tr>
<td>Carob*</td>
<td>Palm (max. 2.2 lbs./Ac.)*</td>
</tr>
<tr>
<td>Cotoneaster</td>
<td>Pieris spp. (max. 3.3 lbs./Ac.)</td>
</tr>
<tr>
<td></td>
<td>Red oak</td>
</tr>
<tr>
<td></td>
<td>Russian olive</td>
</tr>
<tr>
<td></td>
<td>Siberian elm</td>
</tr>
</tbody>
</table>

*T For CA only

**SURFLAN® TANK-MIX:** On Christmas tree plantings, use this tank-mix for pre-emergence control of weeds listed on this label and the Surflan 75W (or Surflan A.S.) label. Use on field-grown Conifer species listed on the labels for each herbicide plus Alpine Fir, Black Spruce, Colorado Blue Spruce, Coulter Pine, Engelmann Spruce, Giant Redwood, Grand Fir and Veitchi Fir. Broadcast the mixture as a directed spray to the soil surface or as an overt top spray using 2.2 to 4.4 pounds of this product and the specified label rate of Surflan 75W or Surflan AS. Apply in sufficient water per acre to uniformly treat the area. Follow overt top sprays with sprinkler irrigation to move the herbicide from leaf surfaces to the soil. Remove weed growth before application. Mix weed residues, prunings or trash into the soil, or remove them before treatment. Soil should be in good tilth and free of clods at time of application. Shallow cultivation (1 to 2 inches) after treatment will not reduce weed control. Observe all precautions and limitations on this product and Surflan labels.

**Note:** Length of weed control may be reduced when continuous wet soil conditions follow herbicide application.

**Use Precautions and Restrictions:** 1) Do not use on seedbeds or on unrooted cuttings. 2) Do not use in greenhouses or other enclosed areas.

**TURFGRASSES FOR SOD (In States Except FL)**

**Bermudagrass, Centipedegrass, St. Augustinegrass and Zoysiagrass:** Apply 2.2 to 4.4 pounds of this product per acre according to soil texture, as indicated below:

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Application Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muck or Peat</td>
<td>Old beds: Within 2 days after lifting of sod</td>
</tr>
<tr>
<td></td>
<td>New beds: 3 to 4 days after spraying or plugging</td>
</tr>
<tr>
<td>Sandy soil</td>
<td>Old beds: Within 2 days after lifting of sod</td>
</tr>
<tr>
<td></td>
<td>New beds: 7 to 10 days after spraying or plugging</td>
</tr>
</tbody>
</table>

**Note:** On newly sprigged Turfgrass, temporary slowing of growth may follow application. If weeds regrow, apply an additional 2.2 pounds of this product on Muck or Peat, or 1.1 pounds on Sandy soil.

**Use Precautions and Restrictions:** 1) Do not apply more than 4 pounds a.i. (4.4 lbs. of this product) per acre per application. Maximum number of applications per calendar year is 2. Maximum total amount per calendar year is 6 pounds a.i. (6.6 lbs. of this product) per acre. 2) Do not apply within 30 days prior to cutting or lifting. 3) Do not graze or feed turf clippings to animals or illegal residues may result. 4) Do not apply in combination with surfactants or other spray additives. 5) This product must be watered-in immediately after application if applied at a rate greater than 2.2 pounds of this product per acre. 6) Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases.

**TURFGRASSES FOR SOD (In States Except FL)**

**Bermudagrass, Centipedegrass, St. Augustinegrass and Zoysiagrass:** Apply 1.1 to 2.2 pounds of this product per acre.

**Use Precautions and Restrictions:** 1) Do not apply to established beds within 2 days after lifting of sod. Do not apply to new beds before 7 to 10 days after sprigging or plugging. 2) Do not apply more than 2 pounds a.i. (2.2 lbs. of this product) per application and no more than two applications per calendar year. 3) Do not apply more than 3 pounds a.i. (3.3 lbs. of this product) per calendar year. 4) On newly sprigged Turfgrass, hybrid Bermudagrass, non-dormant Bermudagrass or non-dormant Zoysiagrass, temporary slowing of growth and yellowing may occur following application. 5) Use only on Turfgrass reasonably free of infestations of insects, nematodes, and diseases. 6) Do not use north of NC (except in the VA coastal plains) or on soils with pH of above 7.8. 7) Do not use on Muck or Alkaline soils. 8) Do not apply over the rooting area of trees or ornamentals not listed on this label. 9) Do not seed or overseed with desirable Turfgrass within 4 months before or 6 months after treatment. 10) Do not apply this product to newly seeded grasses until they have overwintered and have well developed rhizome treatment. 11) Do not exceed pounds a.i. (2.2 lbs. of this product) within 12 months of seeding grasses. 12) Do not graze or feed turf clippings to animals or illegal residue may result.

**TURFGRASS FOR FAIRWAYS, LAWNS AND SOD PRODUCTION**

**Bermudagrass, Centipedegrass, St. Augustinegrass and Zoysiagrass:** Apply this product after September 1 (after October 1 for Annual bluegrass) before emergence of Winter annual weeds. Fall applications of this product will control Annual bluegrass, Giant Redwood, Grand Fir and Veitchi Fir. Broadcast the mixture as a directed spray to the soil surface or as an overt top spray using 2.2 to 4.4 pounds of this product and the specified label rate of Surflan 75W or Surflan AS. Apply in sufficient water per acre to uniformly treat the area. Follow overt top sprays with sprinkler irrigation to move the herbicide from leaf surfaces to the soil. Remove weed growth before application. Mix weed residues, prunings or trash into the soil, or remove them before treatment. Soil should be in good tilth and free of clods at time of application. Shallow cultivation (1 to 2 inches) after treatment will not reduce weed control. Observe all precautions and limitations on this product and Surflan labels.

**Note:** Length of weed control may be reduced when continuous wet soil conditions follow herbicide application.

**Use Precautions and Restrictions:** 1) Do not use on seedbeds or on unrooted cuttings. 2) Do not use in greenhouses or other enclosed areas.

**TURFGRASSES FOR SOD (FL ONLY)**

**Bermudagrass, Centipedegrass, St. Augustinegrass and Zoysiagrass:** Apply 2.2 to 4.4 pounds of this product per acre according to soil texture, as indicated below:

<table>
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**Note:** On newly sprigged Turfgrass, temporary slowing of growth may follow application. If weeds regrow, apply an additional 2.2 pounds of this product on Muck or Peat, or 1.1 pounds on Sandy soil.

**Use Precautions and Restrictions:** 1) Do not apply more than 4 pounds a.i. (4.4 lbs. of this product) per acre per application. Maximum number of applications per calendar year is 2. Maximum total amount per calendar year is 6 pounds a.i. (6.6 lbs. of this product) per acre. 2) Do not apply within 30 days prior to cutting or lifting. 3) Do not graze or feed turf clippings to animals or illegal residues may result. 4) Do not apply in combination with surfactants or other spray additives. 5) This product must be watered-in immediately after application if applied at a rate greater than 2.2 pounds of this product per acre. 6) Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases.

**TANK-MIXTURE WITH IMITATOR PLUS, ROUNDUP OR TOUCHDOWN:** This tank-mixture will provide control of emerged Annual weeds and residual control of weeds listed on this label. The combination also will partially control emerged Perennial weeds listed on the Roundup, Imitator Plus or Touchdown label. Add to the spray tank the specified rate of this product noted in the above section for this product alone.
Then add the specified label rate of Roundup, Imitator Plus or Touchdown per acre depending on weeds present and their growth stage. Also, add an agriculturally approved non-ionic surfactant at 0.5% by volume of spray solution. Apply the mixture in 10 to 40 gallons of water per acre as a post-emergence spray at the appropriate weed growth stage given on the Roundup, Imitator Plus or Touchdown label. Provide constant agitation during mixing and application to keep the mixture in suspension. Refer to the “APPLICATION PROCEDURES” section of this label for further directions. Refer to the labels of both herbicides for specific non-crop sites, rates, weeds controlled and further directions, precautions and limitations.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal. **PESTICIDE STORAGE:** Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. Do not stack over 2 pallets high. Move bags carefully so as not to tear or puncture. Do not move containers from one area to another unless they are securely sealed. Keep containers tightly sealed when not in use. Do not allow bags to become wet or store near water supplies, food, feed and fertilizer to avoid contamination. Store in original container only. If the contents are leaking or material is spilled, follow these steps:
1. Collect and place in suitable containers for disposal.
2. Wash area with soap and water to remove remaining pesticide.
3. Follow washing with clean water rinse.
4. Do not allow runoff to enter sewer or contaminate water supplies.
5. Dispose of waste as indicated below.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling, if available. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY—CONDITIONS OF SALE**

THE DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.