SUPPLEMENTAL LABELING

DUPONT™ MATRIX® HERBICIDE
FOR USE ON CITRUS FRUIT, STONE FRUIT, TREE NUTS, POME FRUIT, AND GRAPES

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with the terms of this labeling.

DuPont™ MATRIX® herbicide is a dry flowable formulation that selectively controls certain broadleaf weeds and grasses in pome fruit, citrus fruit, tree nuts, stone fruit, and grapes which have been established for at least one full growing season.

Continuous agitation is required to maintain the product in suspension in the spray tank.

TANK MIXTURES
To broaden the weed control spectrum and/or extend the residual effectiveness of MATRIX® herbicide, MATRIX® may be tank mixed with other registered herbicides affecting a different site of action (mode of action) and/or adjuvants registered for use on the crops listed on MATRIX® labeling.

Refer to the label(s) of the tank mix partner(s) for any additional use instructions or restrictions.

APPLICATION INFORMATION
(Citrus Fruit, Stone Fruit, Tree Nuts, Pome Fruit, and Grapes)
MATRIX® should be applied as a uniform broadcast application to the orchard or vineyard floor or as a uniform band application directed at the base of the trunk or vine.

For broadcast applications, make a single application of MATRIX® at 4 ounces per acre per year. For improved weed management, MATRIX® should be applied in tank mixture with other registered preemergence herbicides.

When applied as a banded treatment (50% band or less), MATRIX® may be applied twice per year. However, do not apply more than 4 ounces per acre on a broadcast application basis per year. Unless otherwise specified on product labeling, or in separate published DuPont recommendations, allow a minimum of 30 days between applications.

To help ensure uniform coverage, use a minimum of 10 gallons of spray solution per acre. Nozzle selection should meet manufacturer’s spray volume and pressure recommendations for pre-emergence or postemergence herbicide applications.

Do not apply MATRIX® by air. Use ground application equipment only.

Apply only to crops that have been established for one full growing season and are in good health and vigor.

Best results are obtained when the soil is moist at the time of application, and 1/2 inch of rainfall or sprinkler irrigation occurs within 2 weeks after application. Time the application(s) to take advantage of normal rainfall patterns and cool temperatures. Moisture for activation should occur within 2-3 weeks after application.

MATRIX® may also be applied by certain chemigation methods, such as micro-sprinkler. However, do not apply by overhead, flood, or drip irrigation.

Avoid direct or indirect spray contact with crop foliage or fruit, except undesirable suckers.

Do not use MATRIX® in a spray solution with a pH of below 4.0 or above 8.0, or with spray additives that buffer the pH to below 4.0 or above 8.0, since degradation of DuPont™ MATRIX® may occur.

For product information, call 1-888-6-DUPONT
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<table>
<thead>
<tr>
<th>CROP GROUP / CROP</th>
<th>PRE-HARVEST INTERVAL (PHI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrus Fruit:</td>
<td></td>
</tr>
<tr>
<td>Calamondin; Citrus citron;</td>
<td>3 days</td>
</tr>
<tr>
<td>Citrus hybrids (includes chironja, tangelo, tangor);</td>
<td></td>
</tr>
<tr>
<td>Grapefruit; Kumquat; Lemon; Lime;</td>
<td></td>
</tr>
<tr>
<td>Mandarin (tangerine); Orange (sweet and sour);</td>
<td></td>
</tr>
<tr>
<td>Pummelo; Satsuma mandarin</td>
<td></td>
</tr>
<tr>
<td>Pome Fruit:</td>
<td>7 days</td>
</tr>
<tr>
<td>Apple; Crabapple; Loquat; Mayhaw;</td>
<td></td>
</tr>
<tr>
<td>Pear; Oriental pear; Quince</td>
<td></td>
</tr>
<tr>
<td>Tree Nuts:</td>
<td>14 days</td>
</tr>
<tr>
<td>Almond; Beech nut; Brazil nut;</td>
<td></td>
</tr>
<tr>
<td>Butternut; Cashew; Chestnut;</td>
<td></td>
</tr>
<tr>
<td>Chinquapin; Filbert (hazelnut);</td>
<td></td>
</tr>
<tr>
<td>Hickory nut; Macadamia nut (bush nut);</td>
<td></td>
</tr>
<tr>
<td>Pecan; Pistachio; Walnut (black and English)</td>
<td></td>
</tr>
<tr>
<td>Stone Fruit:</td>
<td>14 days</td>
</tr>
<tr>
<td>Apricot; Cherry (sweet and tart);</td>
<td></td>
</tr>
<tr>
<td>Nectarine; Peach; Plum;</td>
<td></td>
</tr>
<tr>
<td>Plum (Chickasaw); Plum (Damson);</td>
<td></td>
</tr>
<tr>
<td>Plum (Japanese); Plumcot; Prune (fresh)</td>
<td></td>
</tr>
<tr>
<td>Grapes</td>
<td>14 days</td>
</tr>
</tbody>
</table>

**WEEDS CONTROLLED**
Susceptible weeds are controlled for 60 to 90 days after application of DuPont™ MATRIX® herbicide. Rainfall or irrigation is needed for herbicide activation. Length of control is a function of moisture for activation, soil temperature, soil texture and amount of moisture after application.

When weeds are present at application, include a labeled burn down herbicide, such as glyphosate, paraquat, or glufosinate, with an appropriate adjuvant. MATRIX® will help provide postemergence control of the weeds listed in product labeling. For best results, make postemergence applications to young, actively growing weeds and include a spray adjuvant.

Residual weed control may be reduced when MATRIX® is applied where heavy crop trash and/or weed residue exists.

Weed control may also be reduced when applications of MATRIX® are made to weeds under stress from drought, excessive water, temperature extremes, disease or low humidity.

**PREEMERGENCE WEED CONTROL**

<table>
<thead>
<tr>
<th>Grasses</th>
<th>Echinochloa crus-galli</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnyardgrass</td>
<td></td>
</tr>
<tr>
<td>Crabgrass, large</td>
<td></td>
</tr>
<tr>
<td>Foxtail, Giant</td>
<td></td>
</tr>
<tr>
<td>Foxtail, Green</td>
<td></td>
</tr>
<tr>
<td>Foxtail, Yellow</td>
<td></td>
</tr>
<tr>
<td>Quackgrass</td>
<td></td>
</tr>
<tr>
<td>Wheat, Volunteer</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Broadleaves</th>
<th>Matricaria maritima</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chamomile, False</td>
<td></td>
</tr>
<tr>
<td>Dandelion, common</td>
<td>Taraxacum officinale</td>
</tr>
<tr>
<td>(seedling)</td>
<td>Erodium cicutarium</td>
</tr>
<tr>
<td>Filaree, Redstem</td>
<td>Conyza bonariensis</td>
</tr>
<tr>
<td>Fleabane, hairy</td>
<td>Senecio vulgaris</td>
</tr>
<tr>
<td>Groundsel, common</td>
<td>Lamium amplexicaule</td>
</tr>
<tr>
<td>Henbit</td>
<td>Kochia</td>
</tr>
<tr>
<td>Kochia</td>
<td>Mallow, common</td>
</tr>
<tr>
<td>Mallow, common</td>
<td></td>
</tr>
</tbody>
</table>
Marestail/horseweed  Conyza canadensis
Mustard, Birdsrape  Brassica rapa
Mustard, Black  Brassica nigra
Pigweed, Redroot  Amaranthus retroflexus
Pigweed, Smooth  Amaranthus hybridus
Puncturevine  Tribulus terrestris
Purslane, Common  Portulaca oleracea
Spurge, prostrate  Euphorbia prostrata
Spurge, spotted  Euphorbia maculata

PREEMERGENCE PARTIAL WEED CONTROL
Grasses  Avena fatua
Wild Oat  Xanthium spp.

Broadleaves/Sedges
Cocklebur  Xanthium spp.
Dandelion, common  Taraxacum officinale
(established)  Chenoepodium album
Lambquarters, common  Solanum nigrum
Nightshade, Black  Solanum sarrachoides
Nightshade, Hairy  Cyperus esculentus
Nutsedge, yellow  Amaranthus bitoides
Pigweed, Prostrate  Ambrosia artemisiifolia
Ragweed, Common  Abutilon theophrasti
Velvetleaf 

POSTEMERGENCE WEED CONTROL
Grasses (1-2 inches)  Hordeum vulgare
Barley, Volunteer  Echinochloa crus-galli
Barnyardgrass  Poa annua
Bluegrass, Annual  Digitaria sanguinalis
Crabgrass, large  Setaria verticillata
(1/2 inch)  Setaria faberi
Foxtail, Bristly  Setaria viridis
Foxtail, Giant  Setaria glauca
Foxtail, Yellow  Panicum dichotomorum
Panicum, Fall  Triticum aestivum
Wheat, Volunteer  

Broadleaves (1-3 inches)  Matricaria maritima
Chamomile, False  Stellaria media
Chickweed, common  Lamium amplexicaule
Henbit  Brassica nigra
Kochia  Sinapis arvensis
Mustard, Black  Amaranthus retroflexus
Mustard, Wild  Amaranthus hybridus
Pigweed, Redroot  Portulaca oleracea
Pigweed, Smooth  Capsella bursa-pastoris
Purslane, common  Raphanus raphanistrum
Shepherd's-purse  

POSTEMERGENCE PARTIAL WEED CONTROL
Grasses  Sorghum halepense
Johnsongrass, seedling  Paniceum millaceum
Millet, wild-proso  Avena fatua
Oat, wild  Agropyron repens
Quackgrass  Eragrostis cilianensis
Sínkgrass  Xanthium spp.

Broadsheets/Sedges
Cocklebur  Taraxacum officinale
Dandelion, common  Chenopodium album
(established)  Malva neglecta
Lambquarters, common  Solanum sarrachoides
Nightshade, hairy  Cyperus esculentus
Nutsedge, yellow  Amaranthus bitoides
Ragweed, common  Ambrosia artemisiifolia
Smartweed, Pennsylvania  Polygonum pensylvanicum
Thistle, Canada  Cirsium arvense
Velvetleaf  Abutilon theophrasti

SPECIFIC WEED PROBLEMS
COMMON DANDELION AND MALLOWS: DuPont™
MATRIX® herbicide provides excellent preemergence control of common dandelion and mallow germinating from seed. In high rainfall areas or where sprinkler irrigation is used, a second application may be needed to extend residual control throughout the growing season. When applications are made postemergence to these weeds, always add a suitable burndown herbicide such as glyphosate or paraquat. Small and medium sized plants (up to 6 inches in diameter) are controlled by postemergence applications of MATRIX® plus a burndown herbicide; however, plants that are larger than 6 inches in diameter may only be suppressed and may require a second application 4 to 6 weeks later.

MARESTAIL AND FLEABANE: Where marestail and fleabane are the target weeds, applications prior to emergence provide best results. This may require a fall application to help prevent fall germinated seedlings from becoming established during the winter. A foliar active herbicide with activity on fleabane and marestail (such as paraquat, glyphosate, and glufosinate) must be tank mixed with MATRIX® for best control and resistance management. After fall application, a second application in the spring may be required to provide extended weed control into the summer. Where MATRIX® is applied for control of Marestail and Fleabane, it is also recommended that another soil residual herbicide be included as a tank mix or rotational partner to aid in resistance management.

PUNCTUREVINE: For best results, apply early in the spring when you can expect rainfall or overhead irrigation to move MATRIX® into the weed root zone before puncturevine germinates. Puncturevine emerges over a long period of time and late season germinations may not be controlled.
YELLOW NUTSEDGE: MATRIX® provides suppression of yellow n Ludgarge. To obtain the most effective results, use the highest rate allowed based on the width of your spray band and make two applications. For applications made postemergence to nutedge, always add the appropriate rate of glyphosate and an effective adjuvant. On soils with high organic matter (6% or higher), always apply postemergence to weeds since preemergence applications are not as effective on these soils.

**Application Timing - Yellow Nutsedge**

*Preemergence plus Early Postemergence:* Make the preemergence application when you can expect rainfall or overhead irrigation to move DuPont™ MATRIX® herbicide into the nutsedge root zone prior to nutsedge emergence. Make a second application when emerging nutsedge is 2 to 4 inches tall.

*Postemergence plus Postemergence:* Make first application when emerging nutsedge is 2 to 4 inches tall. Repeat application 14 days later. Note: If yellow nutsedge is greater than 6 inches tall at the first application, weed control effectiveness will be greatly reduced.

**ANNUAL SUMMER GRASSES (such as Barnyardgrass, Green foxtail, and Crabgrass):** Where sprinkler irrigation is used, a fall or early spring application of MATRIX® will not provide season-long control of summer grasses like foxtail, barnyardgrass and crabgrass. For best results, use MATRIX® with a suitable tank-mix herbicide such as oryzalin or pendimethalin. A second application may be needed to provide extended control of grasses.

**USE PRECAUTIONS**
- Direct sprays to minimize spray contact with fruit or foliage.

**Diuron Containing Products (Washington and Oregon):** On coarse textured soils where crops are grown under sprinkler irrigation, avoid using diuron containing products (such as, Karmex XP or Direx 4L) as a tank-mix partner with MATRIX® between June 1 and September 30 since crop injury may result. MATRIX® tank-mixed with diuron products can be used in the fall (after September 30), or early spring when temperatures are cool to moderate.

**CROP ROTATION**

*Fruit, Nut, and Vine Crops*

Do not plant any crops, except field corn, tomatoes, potatoes, and those listed on product labeling in the “APPLICATION INFORMATION Section”, within one year of the last MATRIX® application. Prior to planting, fields to be rotated to the above crops should have a thorough soil mixing - for example, two diskings, or a plowing and a disking. To help ensure rotational crop safety, a field bioassay should be completed prior to planting any other desired crops. The results of this bioassay may require the crop rotation interval to be extended. A successful field bioassay means growing to maturity a test strip of the crop(s) intended for production. The test strip should cross the entire field including knolls and low areas.

**MICRO-SPRINKLER CHEMIGATION**

*Fruit, Nut, and Vine Crops*

MATRIX® may be applied via micro-sprinkler chemigation. The chemigation 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 backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional (normally closed) solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticide(s) and capable of being fitted with a system interlock. Do not apply DuPont™ MATRIX® through any other chemigation equipment.

**USE PRECAUTIONS FOR CHEMIGATION**

*Fruit, Nut, and Vine Crops*
- Do not connect an irrigation system used for MATRIX® Herbicide application to a public water system.
- Distributing treated water in an uneven manner can result in crop injury, lack of effectiveness, or over-tolerance pesticide residues in the crop. Therefore, to ensure that the mixture is applied evenly at the recommended rate, use sufficient water, apply the mixture for the proper length of time and ensure sprinkler produces a uniform water pattern.
- Do not permit run-off during chemigation.
- Continuous agitation in the mix tank is needed to keep the product from settling. If settling does occur, thoroughly re-agitate the tank mixture before using.

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PRECAUTIONS

- Avoid spray drift to any adjacent crops or desirable plants as injury may occur.
- Draining or flushing equipment on or near desirable trees or other plants, or in areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots may injure these plants. Trees or other desirable plants whose roots extend into a treated crop use area may be injured.
- For best results, maintain spray tank solution at pH 5 to 7.
- Do not apply to frozen or snow covered soil. Crop injury may occur from applications made to poorly drained soils.
- If the selected companion herbicide has a ground or surface water advisory, consider the advisory when using the companion herbicide.

IMPORTANT
BEFORE USING DUONTM MATRIX® HERBICIDE, READ AND FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA-REGISTERED LABEL.

This bulletin contains new or supplemental instructions for use of this product which do not appear on the EPA-registered package label. Follow the instructions carefully. This labeling must be in the possession of the user at the time of pesticide application. Read the Limitation of Warranty and Liability on the Section 3 Federal product label before buying or using THIS product. If terms are not acceptable, return the unopened package at once to Seller for full refund of purchase price paid. Otherwise, use by Buyer or any other User constitutes acceptance of the terms of the Limitation of Warranty and Liability on the Section 3 Federal product label.

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