DuPont™ Vendex® 50WP
miticide

“......... A Growing Partnership With Nature”
**DuPont™ Vendex® 50WP**

**miticide**

**Water Soluble Pack**

**AGPAK®**

**Active Ingredient**  
Fenbutatin-oxide  
[Hexakis (2-methyl-2-phenylpropyl) distannoxane]  50%

**Inert Ingredients**  
50%

**TOTAL**  
100%

**EPA Reg. No.** 352-658

**EPA Est. No.** _________

**Net Contents:** _________

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**KEEPE OUT OF REACH OF CHILDREN**

**DANGER**  
Poison

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

**FIRST AID**

**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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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 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 five minutes, then continue rinsing. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call toll free 1-800-441-3637.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

See Label for Additional Precautions and Directions for Use.
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER! Fatal if inhaled. Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe dust or spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Avoid handling the inner bag as moisture will cause breakage.

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

Not for use in residential orchard settings.

GENERAL INFORMATION

DuPont™ VENDEX® 50WP Miticide is a dispersible granule that is used to control a wide range of herbivorous mites, including strains that are resistant to other miticides. VENDEX® 50WP should be dispersed in water and applied using conventional dilute sprayers or concentrate sprayers. Agitation is required during mixing and spraying.
**PACKAGING**

DuPont™ VENDEX® 50WP is premeasured in 1 pound Soluble Packets, which readily dissolve in water. Each Soluble Packet is contained in an individual waterproof, foil bag, with 12 bags enclosed in a cardboard box. DO NOT attempt to open the Soluble Packets.

Take the following precautions when handling VENDEX® 50WP Soluble Packets:

- Do not handle the Soluble Packets excessively.
- Do not handle the Soluble Packets with wet hands.
- Do not expose the Soluble Packets to water or moisture, as this will cause breakage.
- Do not place the Soluble Packets on wet surfaces.
- Do not place the foil bag in the spray tank. It is NOT soluble in water.
- Do not sell individual water Soluble Packets.

**APPLICATION RECOMMENDATIONS**

To achieve the best results, apply VENDEX® 50WP when mite populations are just beginning to build. Thorough and complete coverage of infested foliage and fruit is necessary for optimum control. VENDEX® 50WP performs best when the daily temperature at application averages above 70°F. When the daily temperature at application averages below 70°F, performance is reduced. VENDEX® 50WP may be applied when honeybees and beneficial mites are present.

Apply this product only as recommended on this label.

**DETERMINING GALLONAGE**

To apply the correct amount of VENDEX® 50WP to your orchard, determine the number of gallons of water needed to spray 1 acre of your trees to the point of drip. If you have not already determined this gallonage, conduct a test to determine it. If you need assistance in calculating the proper gallonage, contact your equipment dealer or State Extension specialist.

**SPRAY PREPARATION**

**CAREFULLY OPEN ENVELOPE AND IMMEDIATELY DROP THE INNER BAG INTO THE SPRAY TANK. DO NOT OPEN OR HANDLE THE INNER BAG. MOISTURE WILL CAUSE BREAKAGE.**

Before mixing VENDEX® 50WP, thoroughly clean the spray tank if the spray tank has been used previously to mix boron containing or free chlorine releasing pesticide products. Even minimal carryover concentration of boron or chlorine containing products in the spray tank may cause the dissolved water soluble bag material to precipitate in the spray tank. Do not put water soluble bags close to the recirculating inlet and outlet, as they might block the line before completely dissolved.

To prepare an application of VENDEX® 50WP, follow these directions:

1. Fill a clean spray tank 1/4 to 1/2 full with water and agitate.
2. Add the required number of VENDEX® 50WP Soluble Packets (see Specific Uses for specific rate recommendations).

**NOTE:** To add VENDEX® 50WP packets, open the foil bag and drop the packet directly into water. DO NOT place the foil bag in the spray tank, as it is insoluble.

3. Allow the packets to dissolve completely. This should take about 5 minutes. Continue agitating the mixture to ensure that the VENDEX® 50WP is thoroughly mixed with the water.
4. Add the remaining water.

**Tank Mixing**

This product can be tank mixed with other pesticides provided that label directions are followed for the most restrictive of label precautions and limitations. Tank mixtures are permitted only in those states where the tank mix partner is registered.

When tank mixing VENDEX® 50WP with other products, introduce the products into the tank in the following order: (1) water soluble packets (such as VENDEX® 50WP), (2) water dispersible granules, (3) wettable powders, (4) flowable liquids, (5) emulsifiable concentrates, and (6) adjuvants and/or oils. Always allow each product to fully disperse before adding the next product. Products containing boron will interfere with film solubility of the water soluble packets. If boron products are added to the spray tank, add the VENDEX® 50WP soluble packets first, making sure they are completely dissolved before adding any boron products.

**Compatibility**

Since formulations may be changed and new ones introduced, it is recommended that users check the desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.) before use. Avoid mixtures of several materials and very concentrated spray mixtures.

**RESISTANCE MANAGEMENT**

As with all acaricides, repeated exclusive use of VENDEX® 50WP may lead to the buildup of resistant strains of mites in some crops. If more than one application of an acaricide is needed to control heavy and prolonged populations of mites, consider applying a product with a different mode of action. Additional application(s) of VENDEX® 50WP during the growing season should be considered only after a minimum spray interval in excess of one generation of mites. To conduct a successful resistance management program, closely monitor the mite population. If mite control is unsatisfactory, it is advisable to use an acaricide with an alternate mode of action. Always consult your local State Agricultural Extension Service for advice on the selection of alternative materials.

**SPRAY DRIFT MANAGEMENT**

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

**IMPORTANCE OF DROPLET SIZE**

The most effective way to reduce drift potential is to apply large droplets (>150 to 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT
Prevent drift if applications are made improperly or under unfavorable environmental conditions! See Wind, Temperature and Humidity, and Temperature Inversions sections of this label.

**Controlling Droplet Size - General Techniques**

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use a higher-capacity nozzle instead of increasing pressure.

- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

**Controlling Droplet Size - Aircraft**

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.

- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

- **Boom Length** - The boom length should not exceed 3/4 of the wing or rotor length - longer booms increase drift potential.

- **Application Height** - Application more than 10 feet above the canopy increases the potential for spray drift.

**Boom Height**

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

**Wind**

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Avoid gusty or windless conditions. Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

**Temperature and Humidity**

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

**Temperature Inversions**

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Shielded Sprayers**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

**Air Assisted (Air Blast) Field Crop Sprayers**

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring. Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

**Air Assisted (Air Blast) Tree and Vine Sprayers**

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream.

In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.

- Block off upward pointed nozzles when there is no overhanging canopy.

- Use only enough air volume to penetrate the canopy and provide good coverage.

- Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.
### SPECIFIC USE RATES

<table>
<thead>
<tr>
<th>CROP</th>
<th>MITES CONTROLLED</th>
<th>POUNDS PRODUCT PER ACRE†</th>
<th>MINIMUM-MAXIMUM GALLONS WATER PER ACRE</th>
<th>PRE-HARVEST INTERVAL (Days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apple</td>
<td>Apple Rust, Carpini Spider, European Red, McDaniel Spider, Two-spotted Spider</td>
<td>1-2</td>
<td>Max. 400</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>Apply when mites first appear. Do not apply more than twice per season. Apply no more than 4 pounds per acre per year.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pear</td>
<td>European Red, McDaniel Spider, Pear Rust, Two-spotted Spider</td>
<td>1-2</td>
<td>Max. 400</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>Apply when mites first appear. Do not apply more than two times per season. Apply no more than 4 pounds per acre per year.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grape</td>
<td>Pacific spider, European spider, Two-spotted Spider</td>
<td>1-2.5</td>
<td>Max. 250</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Apply when mites first appear. Make no more than two applications per season. Apply no more than 4 pounds per acre per year. Do not spray in less than 21 day intervals.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citrus in California and Arizona</td>
<td>Citrus Red, Citrus Rust, Texas Citrus, Two-spotted Spider, Yuma Spider</td>
<td>2-4</td>
<td>Max. 1600</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Apply when mites first appear. Make no more than two applications per year. Apply no more than 6 pounds per acre per year. Do not apply in less than a 30-day interval.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citrus in Texas</td>
<td>Citrus Red, Citrus Rust, Texas Citrus, Two-spotted Spider, Yuma Spider</td>
<td>2-3</td>
<td>Max. 800</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Apply when mites first appear. Make no more than two applications per year. Apply no more than 6 pounds per acre per year. Do not apply in less than a 60-day interval.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citrus in Florida</td>
<td>Citrus Red, Citrus Rust, Texas Citrus, Two-spotted Spider, Yuma Spider</td>
<td>2-3</td>
<td>Max. 800</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Apply when mites first appear. Make no more than two applications per year. Apply no more than 4 pounds per acre per year. Residual control with Vendex may be reduced when applied with copper or oil. Do not apply in less than a 60 day interval.</td>
<td></td>
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</tr>
</tbody>
</table>

**Ground Application**

- Citrus groves may be planted close to bodies of water. Do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, natural ponds, marshes, or estuaries that border citrus groves.
- For all trees within 75 feet of bodies of water (described above), apply Vendex so that the spray is directed away from the body of water only.
- Shut off the sprayer when turning at row ends.
- Do not apply when gusts or sustained winds exceed 12 mph.

**Aerial Application**

- Do not apply within 125 feet of water (described above).
- Do not apply when gusts or sustained winds exceed 8 mph.
- Do not apply in less than 10 gallons of final spray per acre.
- Do not apply East of U.S. Highway #1, South and East of state road #846, or South of West Palm Beach canal.
- The boom length must not exceed 3/4 of the wing or rotor length (i.e. the distance of the outermost nozzles on the boom must not exceed 3/4 of the length of the wingspan or rotor).
- Do not apply at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety.
- Nozzles must always point backward and never be pointed downward more than 45 degrees.
- For best results by air:
  - Add an adjuvant spreader that is recommended for use on Citrus fruit at rates specified by the manufacturer.
  - Fly every tree row middle in alternate directions. Do not fly a race track pattern.
  - Do not fly an across tree row pattern.
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<th>PRE-HARVEST INTERVAL (Days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peach, Plum, Prune, Nectarine</td>
<td>European Red, McDaniel Spider, Pacific Spider, Two-spotted Spider, Big-beaked Plum, Plum Nursery</td>
<td>1-2</td>
<td>Max. 400</td>
<td>14</td>
</tr>
<tr>
<td>Cherry (including Sweet and Sour)</td>
<td>European Red, McDaniel Spider, Cherry Rust</td>
<td>1.5-3</td>
<td>Max. 600</td>
<td>14</td>
</tr>
<tr>
<td>Papaya U.S. (Except California)</td>
<td>Carmine, Citrus Red, Texas Citrus, Broad, Red, Black Flat</td>
<td>2</td>
<td>Min. 100 Max. 400</td>
<td>7</td>
</tr>
<tr>
<td>Almond</td>
<td>Pacific Spider, European Red, Two-spotted Spider, Hickory Spider</td>
<td>1-2.5</td>
<td>Max. 500</td>
<td>14</td>
</tr>
<tr>
<td>Pecan</td>
<td>Pecan, Hickory</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walnut</td>
<td>Two-spotted Spider, European Red, Pacific Spider</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strawberry (California only)</td>
<td>Two-spotted Spider</td>
<td>1.5-3</td>
<td>See below</td>
<td>1</td>
</tr>
<tr>
<td>U.S., except California</td>
<td>Two-spotted Spider</td>
<td>1.5-2</td>
<td>See below</td>
<td>1</td>
</tr>
<tr>
<td>Eggplant</td>
<td>Clover, Two-spotted Spider</td>
<td>2-3</td>
<td>See below</td>
<td>3</td>
</tr>
<tr>
<td>Raspberry (Black, Red) in Washington and Oregon</td>
<td>Two-spotted spider</td>
<td>2</td>
<td>Max. 200</td>
<td>3</td>
</tr>
</tbody>
</table>

† NOTE: One pound of product is equal to one soluble packet of product.
**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**: Store in a secure, dry and temperate area. Keep container closed when not in use. Do not store near food or feed. Do not use or store around the home. Avoid contact with water. In case of spill or leak, soak up with sand, earth or synthetic absorbent and dispose of wastes in compliance with local, State and Federal regulations.

**PRODUCT DISPOSAL**: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**: Completely empty contents of envelope into application equipment. Then dispose of empty envelope in a sanitary landfill, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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**LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read This Limitation Of Warranty And Liability Before Buying Or Using This Product. If The Terms Are Not Acceptable, Return The Product At Once, Unopened, And The Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants. DuPont does not agree to be an insurer of these risks. WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

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