



# HEXCEL<sup>TM</sup>

## 50 DF

INSECTICIDE

Contains hexythiazox, the active ingredient used in Hexygon<sup>®</sup> DF Ovicide/Miticide.

### FOR COMMERCIAL USE ONLY.

**Active Ingredient:**

(% by weight)

Hexythiazox: *trans*-5-(4-Chlorophenyl)-N-cyclohexyl

-4-methyl-2-oxothiazolidine-3-carboxamide ..... 50.0%

**Other Ingredients** ..... 50.0%

**Total** ..... 100.0%

EPA Reg. No.: 91234-40

## KEEP OUT OF REACH OF CHILDREN CAUTION

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.)

See below for Precautionary Statements and Directions for Use.

#### FIRST AID

<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li></ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information.

**For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night**  
**Within the USA: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

Hexcel 50 DF is not manufactured, or distributed by Gowan, seller of Hexygon<sup>®</sup> DF Ovicide/Miticide.



Manufactured for:  
**Atticus, LLC**  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS & DOMESTIC ANIMALS**  
**CAUTION**

May irritate eyes, nose, throat and skin. Harmful if inhaled. Avoid breathing dust or spray mist. Avoid contact with skin, eyes or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Waterproof gloves,
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**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.

**ENVIRONMENTAL HAZARDS:**

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

**PRODUCT USE INSTRUCTIONS**

**HEXCEL 50 DF** is recommended for use as a foliar application to labeled crops. **HEXCEL 50 DF** provides effective control of spider mites in the Tetranychid Family. It is a 50% dry-flowable formulation to be mixed with a diluent and applied as a spray.

**HEXCEL 50 DF** controls mites through activity on eggs and immature stages. Control is achieved from either direct contact with the spray or from contact with treated plant surfaces. Through its ovicidal activity, **HEXCEL 50 DF** controls newly deposited mite eggs and eggs which are laid after application. **HEXCEL 50 DF** is also highly effective in controlling immature motile stages of target mite species that are sprayed or move onto treated surfaces. Adult mites are not directly affected. However, eggs produced by females in contact with treated surfaces will be rendered nonviable. **HEXCEL 50 DF** provides extended residual control of pest mite species. The degree and duration of control is dependent on the rate used, growth stage of the mite, species of mite, and climatic conditions under which the material is applied.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Failure to follow the Directions For use and Precautions on this label may result in plant injury or poor disease control.

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 State or Tribal 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 intervals. 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 12 hours. 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:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants in farms, forests, nurseries, or greenhouses.

**REENTRY:** Keep children, pets and unprotected persons out of treated areas until sprays have dried.

**Chemigation Statement**

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



## Managing Mite Resistance

Repeated use of miticides with similar modes of action may lead to buildup of resistant strains of mites. For resistance management, apply **HEXCEL 50 DF** only once per crop cycle. If crop cycle is longer than one year do not apply **HEXCEL 50 DF** more than once per year. Do not apply if resistance to products with a similar mode of action is recognized in the crop. If additional miticide applications are needed during a crop cycle, use a product with a different mode of action, such as a contact adulticide. Always read and follow the product label before applying any miticide.

**Proper Timing:** The activity of **HEXCEL 50 DF** is predominantly against eggs and immature mites. The product should be applied prior to adult mite build-up. Apply at first sign of egg deposit. If adult mites are present in medium to high populations or if all life stages are present, better results may be obtained by applying **HEXCEL 50 DF** in combination with a registered contact mite adulticide.

**Proper Mixing:** Start with completely clean spray tank. If the spray tank was used for an application of an emulsifiable liquid formulation, make certain that all residues are cleaned from the spray tank, and that the tank, spray boom and all nozzles are thoroughly rinsed before adding **HEXCEL 50 DF** to the tank.

**Mixing Directions:** Continuous agitation is required to keep the product in suspension.

**If this product is packaged in water-soluble bags, please read and observe the following directions for use:**

- Packets containing **HEXCEL 50 DF** are water-soluble. Avoid exposing inner bags to moisture.
- Do not allow bags to become wet prior to adding to the spray tank.
- Do not handle inner bag with wet hands.
- Reseal outer bag in a manner that protects remaining packets from moisture.
- Turn on spray tank agitation prior to adding water-soluble packets.
- To prepare the spray mixture, drop the required number of unopened packets, as determined under **APPLICATION INFORMATION**, into the spray tank while filling with water to the desired level (whenever possible direct the fill water over the top of the packets to increase the rate of solubility). Where dosages of **HEXCEL 50 DF** are expressed as fractions of packets, prepare the tank mix load to the lower of the nearest whole packet.
- Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within approximately three to five minutes from the time they were added to the spray tank.
- Once the packets have completely dissolved, add other chemicals following conventional mixing order practices.
- Tank-mix solutions containing boron will affect the solubility of the water-soluble film. Thoroughly rinse the spray tank of any boron - containing spray solution prior to adding any water-soluble packets. When preparing tank mixes containing boron, add the correct amount of **HEXCEL 50 DF** to the spray tank first. Make sure that the water-soluble packets are completely dissolved. Add boron preparations to the spray tank last. High concentrations of boron may cause dissolved water soluble bag material to precipitate and form insoluble residue in the spray tank system.

**If this product is *NOT* packaged in water-soluble bags, please read and observe the following directions for use:**

- Turn on spray tank agitation. Pour recommended amount of this material on the surface of water in a nearly filled spray tank.
- Add balance of water to fill the tank.
- Keep agitator running during filling and spraying operations. Do not allow mixture to stand.

## Compatibility

**HEXCEL 50 DF** is compatible with most crop protection chemicals. However, all possible combinations have not been evaluated. Before operational use of **HEXCEL 50 DF** with other products, test mix small proportionate quantities of each product to ensure compatibility.

## Spreader-Sticker Recommendations

Spreader-sticker agents formulated specifically for ornamentals may be used in combination with **HEXCEL 50 DF** to enhance uniform wetting of leaf surfaces and improve contact activity. Prior to treating large numbers of plants or new species or varieties, treat a few plants with desired tank-mix combinations and observe for 7-10 days to reduce the possibility of plant injury.

## Spray Volume

**HEXCEL 50 DF** is a contact miticide and good coverage is essential for optimum performance. Use sufficient volume to obtain thorough, uniform coverage. Spray all foliage surfaces including underside of leaves for complete coverage.

## Application Information

Apply lower rates when mite infestation levels are low and higher rates on moderate to high mite infestation levels. Make only one application per crop cycle or once per year. This product is for use in commercial plantings. **It is also intended for use in home plantings and ornamental landscaping by licensed commercial pesticide applicators.**



# RECOMMENDATIONS

CROP	PEST	RATE	COMMENTS
<b>Ornamental Plants and Nonbearing Fruit Trees, &amp; Vines Growing in Nurseries, Greenhouses, Shadehouses and Christmas Tree Plantations</b>	Arborvitae Spider Mite, European Red Mite, Honeylocust Spider Mite,	1 -2 ozs. per 100 gals. applied dilute OR 3 - 6 ozs. per acre applied concentrate OR 0.07-0.14 oz. per 1000 square feet	When using high-volume dilute sprays, do not exceed the maximum per acre rate or apply less than the minimum labeled rate. For concen- trate equipment, use the recommended rate per acre. Apply to lawns and turf at the first signs of egg deposition.
<b>Established Ornamental Landscape Plantings, including those in: Interiorscapes, Residences, Public Areas, Commercial Areas, Institutional Areas, Industrial Areas, Rights of way and other easements, and Recreational sites such as camp-grounds, golfcourses, parks and athletic fields</b>	Pacific Spider Mite, Southern Red Mite, Spruce Spider Mite, Strawberry Spider Mite, Two-spotted Spider Mite, Willamette Mite		
<b>Ornamental Lawns and Turf</b> (including residential)	Banks Grass Mite, Clover Mite, Brown Wheat Mite		
<b>Non-residential Turfgrass</b> (including turf grown for sod, turf grown to produce seed, or turf for research purposes)			
<b>Residential Pome Fruit Trees (such as apple, pear)</b> Residential Stone Fruit (such as peach, plum, nectarine) <b>And Residential Nut Trees (such as almond, pistachio)</b>	European Red Mite, Pacific Spider Mite, Strawberry Spider Mite, Two-spotted Spider Mite, Willamette Mite; Pecan Leaf Scorch Mite; Citrus Red Mite	1 -2 ozs. per 100 gals. applied dilute OR 3 - 6 ozs. per acre applied concentrate OR 0.07-0.14 oz. per 1000 square feet	When using high-volume dilute sprays, do not exceed the maximum per acre rate or apply less than the minimum labeled rate. For concentrate equipment, use the recommended rate per acre.
• Do not apply within 28 days of harvest.			
<b>Residential Caneberries</b> (such as red and black raspberries, blackberries, and loganberries and varieties and hybrids of these)	Two-spotted Spider mite; McDaniel Spider Mite; Yellow Spider Mite; Pacific Mite	1 1/3 – 2 ozs. per 100 gals. applied dilute OR 4-6 ozs. per acre applied concentrate OR 0.093-0.14 oz. per 1000 square feet	
• Do not apply within 3 days of harvest.			
<b>Orchids</b>	Arborvitae Spider Mite, European Red Mite, Honeylocust Spider Mite, Pacific Spider Mite, Southern Red Mite, Spruce Spider Mite, Strawberry Spider Mite, Two-spotted Spider Mite, Willamette Mite	1 -2 ozs. per 100 gals. applied dilute OR 3 - 6 ozs. per acre applied concentrate OR 0.07-0.14 oz. Per 1000 square feet	When using high-volume dilute sprays, do not exceed the maximum per acre rate. For concentrate equipment, use the recommended rate per acre. <b>Note:</b> If used on orchids, apply prior to bloom formation.
<b>Pepper/Eggplant Subgroup 8-10B</b> (including greenhouse and plants grown for transplant) African eggplant; bell pepper; eggplant; martynia; nonbell pepper; okra; pea eggplant; pepino; roselle; scarlet eggplant; cultivars, varieties, and/or hybrids of these	Tetranychid Mites (such as Two-spotted spider mite), Pacific spider mite, Strawberry spider mite	1 -2 ozs. per 100 gals. applied dilute OR 3 - 6 ozs. per acre applied concentrate OR 0.07-0.14 oz. per 1000 square feet	
<ul style="list-style-type: none"> <li>• Do not apply within 1 day of harvest.</li> <li>• Do not apply more than 24 ounces of <b>HEXCEL 50 DF</b> per acre per calendar year.</li> <li>• For field grown crops in subgroup 8-10B, do not plant rotationalcrops other than those on this label within 120 days of this application.</li> </ul>			

(continued)



### RECOMMENDATIONS (cont.)

CROP	PEST	RATE	COMMENTS
Greenhouse Tomatoes (including tomatoes grown for transplant)	Tetranychid Mites (such as European Red Mite and Two-spotted Spider mite)	1 -2 ozs. per 100 gals. applied dilute OR 3 - 6 ozs. per acre applied concentrate OR 0.07-0.14 oz. per 1000 square feet	Use sufficient volume of water to obtain complete coverage but not less than 20 gallons per acre.
	<ul style="list-style-type: none"><li>Do not apply within 1 day of harvest.</li><li>Do not apply more than 6 ounces of <b>HEXCEL 50 DF</b> per acre per calendar year.</li></ul>		

#### Use Restrictions:

- Do not use household detergents in tank-mix combinations with **HEXCEL 50 DF**.
- Do not graze or feed livestock on cover crops growing in treated areas.
- Do not use on crops used for feed or forage.
- Do not use water from treated areas for irrigating other crops.
- Do not make more than one application of **HEXCEL 50 DF** or any other Hexythiazox product to the same crop per calendar year.

#### Phytotoxicity:

**HEXCEL 50 DF** is intended for use only on healthy, stable plants. It should not be applied to plants that have not adjusted to changes in temperature, water, light sensitivity, new containers, new growing areas, transplantation, wind exposure or other environmental changes. Nor should it be applied to plants that are stressed by improper watering, temperature extremes, improper light, insects, diseases, nematodes or other disorders. To minimize the possibility of plant injury, a few plants should be treated with the recommended tank mix combinations and observed for 7 to 10 days before **HEXCEL 50 DF** is applied to a large number of plants. If plant damage develops in the test plants, **HEXCEL 50 DF** should not be applied to any other plants.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**STORAGE:** Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals, and away from other pesticides, fertilizers, food or feed.

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

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. After cleaning, offer container for recycling if available, or puncture and dispose of container in a sanitary landfill, or by other procedures approved by State and local authorities.

### LIMITATION OF WARRANTY AND LIABILITY

**IMPORTANT: READ BEFORE USE.** Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

**HEXCEL 50 DF** is a trademark of Atticus, LLC  
Hexygon® is a registered trademark of Gowan Company, LLC.

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