



# Captiva<sup>®</sup>

INSECT REPELLENT / INSECTICIDE

For use on outdoor and greenhouse food and non food crops, ornamental flowers, trees, shrubs and plants

ACTIVE INGREDIENTS:	% By Wt.
Capsicum oleoresin extract* .....	7.6%
Garlic oil .....	23.4%
Soybean oil .....	59.3%
<b>OTHER INGREDIENTS</b> .....	<b>9.7%</b>
	<b>TOTAL 100.0%</b>

\*contains 0.26% nominal concentration of Capsaicin and related capsaicinoids

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

FIRST AID	
<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 1-888-478-0798 for emergency medical treatment information.	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear chemical-resistant gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Applicators and other handlers must wear:
- long-sleeved shirt and long pants
  - shoes plus socks
  - chemical resistant gloves

#### USER SAFETY RECOMMENDATIONS

- Users should:
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
  - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards:** For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

#### Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. 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. Read all Directions for Use carefully before applying.

EPA Reg. No. 10163-326  
EPA Est. No.



Produced For:  
Gowan Company  
P. O. Box 5569  
Yuma, AZ 85366-5569

**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, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and involves contact with anything that has been treated such as plants, soil, or water, is:

- Coveralls
- 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 on farms, forests, nurseries, or greenhouses.

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

**USE INFORMATION**

Captiva® is a repellent and insecticide formulated using concentrated plant extracts that can be used alone as a repellent or in tank mixes with other biological or conventional insecticides or miticides to improve the level of control.

The repellent effect of Captiva® protects the crops from pests population establishment by its antifeedant and anti-egg laying properties. The irritant effect of Captiva® increases pest mobility, exposure and vulnerability to insecticides or miticides that act on contact. Captiva® weakens the cuticle of some immature stages of insect and mite pests.

Read all directions before using this product. Apply Captiva® directly to any food or non-food crop growing in field and greenhouses up to and including the day of harvest, at a maximum rate of 4 pints per acre. Refer to the **Insecticidal and Miticidal Uses Section** for a complete listing of crops.

**MIXING AND APPLICATION**

**GROUND APPLICATIONS:** Captiva® has a repellent and irritant effect on adult and immature stages of soft bodied insects and mites

- Apply with most types of ground spray equipment.
- This product must come into contact with the targeted pests to be effective. For best results coverage typically requires a minimum of 10 gallons of total spray volume per acre. Higher volumes will be required for larger perennial crops.
- For best preventive results, this product must be applied at least once a week on a regular and continuous basis.
- When pest pressure is heavy or plant canopy is dense, use higher rates and increase spray frequency. Repeat application if measurable rain occurs within two to three hours of spraying.

**AERIAL APPLICATIONS**

Apply Captiva® uniformly with properly calibrated equipment in 2 to 15 gallons of water per acre. Thoroughly clean equipment prior to mixing spray solution. Avoid streaking, skips, overlaps and spray drift during applications. Apply product only when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas). Repeat application if rain occurs before the product is dry.

**MIXING:**

- Shake well before using. Add required amount of Captiva® to a clean spray tank with at least one-half of the water to be sprayed. Agitate the mixture thoroughly, add other products and then fill the tank with the remaining water and continue agitation.
- Always use this product promptly after mixing with water and do not let tank mix sit for more than 6 hours.
- Use water for dilution with a pH less than 8.
- Captiva® has been found to be compatible with most commonly used pesticides. To avoid problems, conduct a compatibility test before using this product in a tank mix with other pesticides. To test for compatibility, mix a small amount of each product, in the appropriate proportions, in a small jar.

**PHYTOTOXICITY:** Captiva® has been evaluated for phytotoxicity on a wide range of crops and ornamentals. However, since testing on all varieties of all crops and ornamentals is not feasible, testing a small portion of the area to be treated for phytotoxicity is recommended before treating the entire area. Further, all possible combinations or sequences of pesticide sprays, including other fertilizers, surfactants, adjuvants and other pesticides, have not been tested, thus testing for phytotoxicity of spray mixtures is recommended. It is further recommended that spray equipment used to apply Captiva® be thoroughly cleaned before use. The addition of spray adjuvants enhances control in some crops under ideal conditions. Addition of certain adjuvants may cause phytotoxicity therefore, the addition of crop oils and other adjuvants should be thoroughly tested before using. The addition of crop oils to spray mixtures is NOT recommended on ornamental crops. Captan, Bordeaux mixtures, and highly alkaline products can cause unacceptable phytotoxicity and/or reduced effectiveness on target pests. Avoid tank mix combinations of Captiva® with compounds known to be incompatible with oil-based formulation to prevent phytotoxicity. "Waxy bloom" on certain crops and ornamental plants may be reduced after a Captiva® application.

**PREHARVEST INTERVAL:** Captiva® can be applied up to and including the day of harvest.

## INSECTICIDAL AND MITICIDAL USES

Use this product as a foliar spray to repel and suppress pests. For best results use at lower rates when pest pressure is low or use as a preventative management tool in an integrated pest management system. When pest pressure is high use the product alone at its medium to high rates or tank mix with other contact insecticides or miticides.

### RATES

Rates here indicated are for uses in agricultural and ornamental crops grown in the field or in greenhouses.

#### Stand-Alone:

- Dilute 1-2 pints of Captiva® per acre and apply by spraying every 4 -7 days, when used as a preventative management tool or in an integrated pest management system.
- When tank mixing, read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels. In interpreting all labels for the tank mix, the most restrictive situations must apply.
- When pest pressure is heavier or canopy is dense, use higher rates and consider tank mixes with other insecticides or miticides.

#### Tank Mix:

- When tank mixed with other insecticides or miticides Captiva® will provide improved levels of control by increasing pest exposure to those products due to its irritant effect.
- Mix Captiva® at a rate of 8 ounces per acre with other chemical or biological insecticides or miticides. Follow the use directions of all products used in the tank mix including use directions and additive/adjuvant requirements or constraints.

## GREENHOUSE AND ORNAMENTAL USES

#### Stand Alone:

- Dilute 1 - 2 pints of Captiva® per 100 gallons of water and apply by spraying every 4 – 7 days when used as a preventative management tool or in an integrated pest management system.
- When tank mixing, read and carefully follow all applicable use directions, precautions and limitations on the respective product labels. In interpreting all labels for the tank mix, the most restrictive situations must apply.
- When pest pressure is heavier, use higher rates and consider tank mixes with other insecticides or miticides.

#### Tank Mix:

- When tank mixed with other insecticides or miticides Captiva® will provide improved levels of control increasing pest exposure to those products due to its irritant effect.
- Mix Captiva® at a rate of 8 ounces per 100 gallons of water with other chemical or biological insecticides or miticides
- When pest pressure is heavier, use higher rates

**TARGETED PESTS:** Use Captiva® in a foliar spray to repel or suppress soft bodied pests.

- Mites (such as Tetranychus spp., Oligonychus spp., Panonychus spp., Polyphagotarsonemus latus, Phyllocoptruta oleivora, Brevipalpus phoenicis, Steneotarsonemus spinki)
- Thrips (such as Thrips spp., Frankliniella spp., Heliothrips spp., Scirtothrips citri.)
- Psyllids (such as Bactericera spp., Diaphorina citri, Cacopsylla spp.)
- Leafhoppers (such as Empoasca spp., Macrosteles spp., and Graphocephala spp.)
- Lepidoptera larvae (such as Spodoptera spp., Helicoverpa spp., Tuta absoluta, Thecla spp, Strymon basilides)
- White flies (such as Dialeurodes spp., Trialeurodes spp. Bemisia spp.)
- Other pests such as borers (Hypothenemus hampei), mealybugs (Planococcus spp., Pseudococcus spp., Dysmicoccus brevipes) and plant bugs (Leptoglossus spp., Nezara spp)

CROP GROUPS	USE SITES
<b>BERRIES</b>	Blackberry, Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Loganberry, Raspberry (black and red) (Note: For Strawberries – See Other.)
<b>BULB VEGETABLES</b>	Garlic, Leek, Onion (dry bulb, green and Welch), Shallot
<b>CEREAL GRAINS AND COMMODITIES</b>	Barley, Buckwheat, Corn, Millet (pearl and Proso), Oats, Popcorn, Rice, Rye, Sorghum (milo), Teosinte, Triticale, Wheat, Wild rice
<b>CHRISTMAS TREES AND CHRISTMAS TREE PLANTATIONS</b> “Except California”	
<b>CITRUS FRUIT GROUP</b>	Calamondin, Citrus citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sour and sweet), Pummelo, Satsuma mandarin, White Sapote, Uniq Fruit
<b>COTTON AND TOBACCO</b>	
<b>CUCURBIT VEGETABLES</b>	Chayote, Chinese waxgourd, Citron melon, Cucumber, Gherkin, Gourd (edible), Muskmelon, Pumpkin, Squash (summer and winter), Watermelon
<b>NONGRASS ANIMAL FEED</b>	Alfalfa, Clover, Trefoil or Vetch.

<b>FRUITING VEGETABLES</b>	Eggplant, Groundcherry, Pepino, Pepper (including bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato
<b>HERBS AND SPICES GROUP "Except California"</b>	Allspice, Angelica, Anise (anise seed and star), Annatto (seed), Balm (lemon balm), Basil, Borage, Burnet, Chamomile, Caper buds, Caraway, Caraway (black), Cardamom, Cassia bark, Cassia buds, Catnip, Celery seed, Chervil (dried), Chive, Chinese Chive, Cinnamon, Clary, Clove buds, Coriander (cilantro or Chinese parsley – leaf), Coriander (cilantro-seed), Costmary, Cilantro (leaf and seed), Cumin, Curry (leaf), Dill (Dillweed and seed), Fennel (common, Florence), Fenugreek, Grains of paradise, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage (leaf and seed), Mace, Marigold, Marjoram, Mustard (seed), Nasturtium, Nutmeg, Parsley (dried), Pennyroyal, Pepper (black and white), Poppy (seed), Rosemary, Rue, Saffron, Sage, Savory (summer and winter), Sweet bay (bay leaf), Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff, Wormwood
<b>LEGUME VEGETABLES</b>	Bean, Broad Bean, Chickpea, Guar, Jackbean, Lablab bean, Lentil, Pea, Pigeon Pea, Soybean, Sword bean
<b>BRASSICA (COLE) LEAFY VEGETABLES</b>	Amaranth, Arugula, Broccoli, Broccoli raab (rapini), Brussels Sprouts, Cabbage, Cauliflower, Cardoon, Cavalo broccoli, Celery, Chinese Broccoli (gai lon), Chinese Cabbage (bok choy, Napa), Chinese mustard Cabbage (gai choy), Chinese Celery, Celtuce, Chervil, Chrysanthemum (edible-leaved, Garland), Collards, Corn salad, Cress (garden, upland), Dandelion, Dock (sorrel), Endive (escarole), Fennel (florence), Kale, Kohlrabi, Lettuce (head and leaf), Mizuna, Mustard Greens, Mustard Spinach, Orach, Parsley, Purslane (garden, winter), Radicchio (red chicory), Rape Greens, Rhubarb, Spinach, Spinach (New Zealand, vine), Swiss Chard, Turnip Greens
<b>OTHER</b>	Asparagus, Avocado, Banana, Coffee, Cocoa, Cranberry, Fig, Globe artichoke, Grape, Hops, Kiwifruit, Mango, Mushroom, Okra, Olives, Papaya, Pawpaw, Peanut, Persimmon, Pineapple, Pomegranate, Strawberry, Tea, Water chestnut, Watercress, and all other food crops
<b>POME FRUITS</b>	Apple, Crabapple, Loquat, Mayhaw, Quince, Oriental Pear, or Pear
<b>ROOT AND TUBER VEGETABLE</b>	Arracacha, Arrowroot, Artichoke (Jerusalem, Chinese), Beet (garden, sugar), Burdock (edible), Canna (edible), Carrot, Cassava (bitter and sweet), Celeriac (celery root), Chayote (root), Chervil, (turnip-rooted), Chicory, Chufa, Dasheen (taro), Ginger, Ginseng, Horseradish, Leren, Oriental Radish (daikon), Parsley (turnip-rooted), Parsnip, Potato, Radish, Rutabaga, Salsify (oyster plant, black, Spanish), Skirret, Sweet potato, Tanier, Turmeric, Turnip, Yam bean (jicama, manioc pea), Yam (true)
<b>STONE FRUIT</b>	Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum (Chickasaw, Damson, Japanese), Plumcot, Prune
<b>TREE AND NUT</b>	Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut, Hickory nut, Macadamia nut (bush nut), Pecan, Walnut (black and English), Pistachios
<b>TROPICAL FRUITS "Except California"</b>	Papaya, Black Sapote, Canistel, Mamey Sapote, Mango, Sapodilla, Star Apple, Guava, Feijoa, Jaboticaba, Wax Jambu, Star Fruit, Passion Fruit, Acerola, Lychee, Longan, Spanish Lime, Rambutan, Pulasan, Sugar Apple, Atemoya, Custard Apple, Cherimoya, Ilama, Soursop, and Biriba.

## GREENHOUSE

Use Sites	Comment
<b>GREENHOUSE VEGETABLE PRODUCTION</b>	Tomatoes, cucumbers, leaf and Bibb lettuces, bell peppers, eggplant, and herbs and grown vegetables in greenhouses.
<b>TRANSPLANT VEGETABLE PRODUCTION</b>	Brassicas such as broccoli and brussels sprouts, cucumbers, eggplants, melons, onion, peppers, squash are some of the most commonly grown vegetables for field transplant.

## ORNAMENTAL

Use Sites	Representative Commodities
<b>ORNAMENTAL SHRUBS AND PLANTS</b>	Amaranthus, Aster, Azalea, Ferns, Fuchsias, Caladium, Carnation, Chrysanthemum, Dahlia, Daisy, Lilies, Ivy, Ficus, Gardenia, Impatiens, Iris, Jasmine, Lilac, Marigold, Philodendron, Poinsettia, Rose, Zinnia
<b>ORNAMENTAL TREES</b>	Ash, Birch, Cedar, Cyprus, Dogwood, Fir, Elm, Juniper, Maple, Oak, Pine, Spruce

## Storage and Disposal

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

**Pesticide Storage:** Store in a cool, dry place away from heat or open flame.

**Pesticide Disposal:** To avoid waste, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Handling:**

*For plastic containers less than or equal to 5 gallons:* Nonrefillable container. Do not reuse or refill this container. Triple rinse 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 ¼ 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

*For plastic containers greater than 5 gallons:* Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE),  
CALL CHEMTREC® (800) 424-9300.**

For other product information, contact Gowan Company, LLC or see Material Safety Data Sheet.

**NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS**

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Gowan Company. All such risks shall be assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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