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Linda C. Watson  
Consultant/Regulatory Affairs  
Pesticide Regulatory Services  
3703 Sedgefield Drive  
Valdosta, GA 31602

Dear Ms. Watson:

Subject: Agtrol Chemical Products  
Champ Flowable  
EPA Registration No. 55146-41  
Label Revision - Homeowner Use  
Your Application Dated 2/11/92

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. One copy of the finished labeling must be submitted prior to releasing the product for shipment.

Under "Live Oak", in the fourth line, delete "2/3". Under "Environmental Hazards", change the second sentence to "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

Finally, it appears as if the precautionary statements and statements of practical treatment will be on the back panel of the label. If this is the case the front panel must contain a referral statement, such as the one on the agricultural version of your labeling, which states "See Back Panel For Additional Precautionary Statement, and Statements of Practical Treatment."

Sincerely Yours,

*Cynthia Giles-Parker*  
Cynthia Giles-Parker  
Product Manager (22)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

CONCURRENCES

SYMBOL	Enclosure						
URNAME							
DATE	4-27-92						

# CHAMP<sup>®</sup> FLOWABLE

## HOMEOWNER FUNGICIDE

KEEP OUT OF REACH OF CHILDREN  
CAUTION

Active Ingredient	
Copper Hydroxide	23.00%
Inert Ingredients	77.00%
TOTAL	100.00%

Contains 2.3 lbs. Copper Hydroxide per gallon  
(Metallic Copper Equivalent - 15.0%)

Net Contents - 1 Gallon

EPA Reg. No. 55146-41 EPA Est. No. 35896-SC-1

### DIRECTIONS FOR USE

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

### GENERAL INSTRUCTIONS

CHAMP FLOWABLE can be used in all types of homeowner spray equipment, such as pump-up canisters, knapsacks, hose-end sprayers, etc. The spray mixture should be applied as a full cover spray to all leaf surfaces and to the point of "runoff". Where a range of dosage rates is given, the lower rate should be used when applying CHAMP FLOWABLE as a preventative measure or if disease symptoms are just beginning to appear. The higher rate should be used when disease infection is severe. In all cases, it is important to obtain thorough coverage of the leaf surfaces.

No additional surfactants are required unless specified for an individual crop. If CHAMP FLOWABLE is to be applied in combination with other pesticides, CHAMP FLOWABLE should be added to the spray reservoir followed by any sticker-spreaders, insecticides, nutrients, etc. Observe all cautions and limitations on labels of any products used in mixtures. The specific instructions given on this label are based on general applications and circumstances. Recommendations of the State Agricultural Extension Service should be closely followed as to timing, frequency and number of sprays per season.

NOTE: APPLICATION OF CHAMP FLOWABLE IN A LOW pH TANK MIX OR TO PLANT SURFACES WHICH HAVE A LOW pH CHEMICAL RESIDUE MAY ALSO RESULT IN CROP INJURY.

### BERRIES AND VINES

**BLACKBERRIES**, (*Santiams, Logans, Boysens, Marions, Auroras, Cascades, Chehalis and Thornless Evergreens*), *Leaf and Cane Spot*. Apply delayed dormant spray after training in spring at 5 1/3 teaspoons per gallon of water. Make fall spray application after harvest.

**BLUEBERRIES**, *Bacterial Canker*. Apply at 5 1/3 to 10 2/3 teaspoons per gallon of water. Make first application before the Fall rains, preferably the first week in October and a second application four weeks later. (EXCEPT CALIFORNIA)

**CRANBERRY**, *Fruit Rot*. Apply at 10 2/3 teaspoons per gallon of water beginning in late bloom. One or two additional applications made at 10 to 14 day intervals may be required, depending on disease pressure.

**CURRANTS & GOOSEBERRY**, *Leaf Spot*. Make three applications at 13 1/3 teaspoons per gallon of water, starting after harvest, before bloom and after petal fall.

**GRAPES**, *Black Rot, Powdery Mildew and Downy Mildew*. Apply 2 2/3 teaspoons per gallon of water. Begin application at bud break with additional applications made throughout the season depending upon disease severity. (NOTE: Slight to severe foliage injury may occur in copper-sensitive varieties such as Concord, Delaware, Niagara and Rosette. Test for sensitivity before using.)

**RASPBERRIES**, *Leaf and Cane Spot*. Apply at 5 1/3 teaspoons per gallon of water as a delayed dormant spray after training in the spring. Make a fall application after harvest. (EXCEPT CALIFORNIA)

**STRAWBERRIES**, *Leaf Spot & Leaf Blight*. Apply 2 2/3 to 4 teaspoons per gallon of water. Begin application when plants are established and continue on a weekly schedule throughout season. Discontinue applications if signs of phytotoxicity appear.

### ORNAMENTALS

**LIVE OAK**, *Bail Moss (Texas or)*. Apply at 8 teaspoons per gallon of water, in spring after heavy rain, using 1/2 gallons of spray per foot of tree height. Make sure to wet tufts thoroughly. A second application may be required after 12 2/3 months. NOTE: CHAMP Flowable may be injurious to ornamentals grown under live oaks.

**PHILODENDRON**, *Bacterial Leaf Spot*. Apply weekly before disease appears at 2 teaspoons of CHAMP FLOWABLE per gallon of water.

**SYCAMORE**, *Anthraxnose*. Make two applications using 2 2/3 to 4 teaspoons per gallon of water as a full cover spray. Make first application at bud crack and second application 7 - 14 days later at 10% leaf expansion.

For control of diseases on ornamentals in Greenhouses, Fields and Nurseries, apply CHAMP FLOWABLE at 1 1/3 teaspoons per gallon of water as a full cover spray beginning at first sign of disease. Repeat at intervals of 7 to 14 days depending on rainfall and disease severity.

**ARALIA**, *Xanthomonas & Cercospora Leaf Spots, Alternaria*

**AZALEA**, *Cercospora Leaf Spot, Botrytis Blight, Phytophthora Dieback & Powdery Mildew*

**BEGONIA**, *Xanthomonas Leaf Spot, Anthracnose*

**BULBS (EASTER LILY, TULIP, GLADIOLUS)**, *Botrytis Blight*

**CARNATION**, *Alternaria Blight, Pseudomonas Leaf Spot & Botrytis Blight*

**CHRYSANTHEMUM**, *Septoria Leaf Spot & Botrytis Blight*

**COTONEASTER**, *Botrytis Blight*

**EUONYMUS**, *Botrytis Blight, Anthracnose*

**IVY**, *Xanthomonas Leaf Spot*

**PACHYSANDRA**, *Volutella Leaf Blight*

**PERIWINKLE**, *Phomopsis Stem Blight*

**PYRACANTHA**, *Fireblight, Scab*

**ROSE**, *Powdery Mildew, Black Spot*

**YUCCA (ADAMS NEEDLE)**, *Cercospora & Septoria Leaf Spots*

\*On some varieties a discoloration may occur on foliage or blooms. To prevent residues on commercial plants, do not spray just before selling season.

NOTE: Phytotoxicity may occur on certain varieties. Apply on a few plants at the recommended rate and observe for a few days to see if phytotoxicity will occur. Due to the large number of species and varieties of ornamentals and nursery plants, a preliminary trial is recommended to determine plant tolerance for plant species and varieties which are not listed above.

### TREE CROPS

**ALMONDS**, *Coryneum Blight (Stigmia Carpophila), Blossom Brown Rot & Bacterial Blast (Pseudomonas)*. Use 2 2/3 to 4 teaspoons CHAMP FLOWABLE per gallon of water in late dormant before foliage buds swell. If frequent rainfall occurs, a second application should be made during the early bloom stage (popcorn) at 1 2/3 - 2 1/4 teaspoons per gallon of water. To avoid plant injury, do not use above rate after full bloom. For blast control where disease is severe, apply 2 - 4 CHAMP FLOWABLE sprays or as many as required, at 1 1/3 - 4 teaspoons per gallon of water at 2 week post bloom intervals. CAUTION: In sensitive varieties, such as Peerless & Mission, slight leaf injury may occur from post bloom spray.

**APPLE**, *Anthraxnose, European Canker, Pseudomonas*. Apply before fall rains at 4 - 5 1/3 teaspoons per gallon of water. Use on yellow varieties may cause discoloration. To avoid, pick before spraying. Fireblight. Apply at 2 2/3 - 5 1/3 teaspoons per gallon of water. Make application between silver-tp and green-tp. NOTE: Phytotoxicity may occur from late application. After green tip, apply at 1/3 teaspoon per gallon of water. *Crown or Collar Rot*. Mix 5 1/3 teaspoons in gallon of water. Apply 4 gallons of suspension as a drench on the lower trunk area of each tree. Apply either in early spring or in fall after harvest each year. NOTE: Do not use if soil pH is below 5.5 or copper toxicity may result.

**APRICOTS**, *Coryneum Blight (Shot Hole) & Blossom Brown Rot*. Apply at popcorn to full bloom using 2 2/3 to 4 teaspoons per gallon of water. To avoid spray injury, do not apply after bloom.

**CHERRY**, *Dead Bud (Pseudomonas syringae) & Coryneum Blight*. Apply 2 2/3 - 4 teaspoons per gallon of water in Fall (before heavy fall rains) and again in Winter. In orchards where the disease is severe, a spray should also be applied in late summer or as required. *Brown Rot Blossom Blight*. For adequate control apply 2 2/3 to 4 teaspoons per gallon of water as a full cover spray at popcorn and full bloom.

**CITRUS**, *Melanose, Scab, & Pink Pitting*. Apply 1 1/3 - 4 teaspoons per gallon of water, depending on disease severity, as a pre-bloom and post bloom spray. *Greasy Spot*. Apply 2/3 - 2 teaspoons per gallon of water using higher rates when conditions favor disease. *Brown Rot*. Apply 1 1/3 - 2 2/3 teaspoons per gallon of water beginning in fall and continuing as needed. Apply to skirts of trees to a height of at least 4 feet. Apply also to bare ground one foot beyond skirt. Use higher rates when conditions favor disease. NOTE: In California, in areas subject to copper injury, add 1/3 to 1 teaspoon of high quality lime per teaspoon of CHAMP FLOWABLE. *Citrus Canker (SUPPRESSION ONLY)*. Apply 4 teaspoons per gallon of water, spraying flushes 7 - 14 days after shoots begin to grow. Young fruit may require an additional application. Number and timing of applications will be dependent on disease pressure. Under heavy disease pressure, each flush of new growth should be sprayed. *Phytophthora*. Mix 1 1/3 pints of CHAMP FLOWABLE with 1 gallon of water and paint trunks of trees from the soil surface to the lowest scaffold limbs. Apply in May prior to summer rains and/or in the fall prior to wrapping trees for freeze protection. Treatment serves as protection for up to one year, but does not cure existing infections.

**FILBERTS**, *Bacterial Blight*. Apply 5 1/3 - 8 teaspoons per gallon of water as a post-harvest spray. In seasons of heavy rainfall, apply another spray when three-fourths of the leaves have dropped.

**KIWIFRUIT, Blossom Blight (Bud Rot), Leaf Spot (Phomopsis).** Make two to three applications at 2/3 - 1 teaspoon per gallon of water during dormant season. Do not apply at time of or after leaf emergence.

**MANGO (Florida), Anthracnose.** Apply monthly after fruit set until harvest at 2 2/3 - 3 1/3 teaspoons per gallon of water. Consult Extension Service for State recommendations.

**OLIVES (California), Peacock Spot.** Make first application at 2 2/3 to 4 teaspoons per gallon of water before winter rains fall. A second application in early spring should be made if disease is severe.

**PEACHES & NECTARINES, Leaf Curl, Coryneum Blight (Shot Hole).** Apply 2 2/3 - 5 1/3 teaspoons per gallon of water at leaf fall and during dormant season prior to bloom. Use higher rate when rainfall is very heavy and disease pressure is high. **Brown Rot Blossom Blight.** Apply 2 1/3 - 4 teaspoons per gallon of water as a full cover spray at pink bud. Application at this time affords some control of Leaf Curl and Coryneum Blight. **Bacterial Spot.** Apply 2 2/3 teaspoons per gallon of water as a dormant spray. As a post bloom spray, apply 1/3 teaspoons per gallon of water at first and second cover sprays. **NOTE:** Do not apply three weeks prior to harvest. Use only recommended rates. Spotting of leaves and defoliation may occur from use in cover sprays.

**PEARS, Fireblight.** Apply at 1/3 teaspoon per gallon of water at 5 day intervals throughout bloom period. **Pseudomonas Blight.** Apply before fall rains at a rate of 4 - 5 1/3 teaspoons per gallon of water and again at dormant before spring growth starts. **NOTE:** excessive dosages may cause fruit russet.

**PLUMS and PRUNES, Coryneum Blight (Shot Hole).** Apply 2 2/3 - 5 1/3 teaspoons per gallon of water as a dormant spray. **Brown Rot, Blossom Blight.** Apply 2 2/3 - 4 teaspoons per gallon of water as a full cover spray at early white bud stage. Use higher rates when rainfall is heavy and/or disease pressure is high.

**WALNUT, Walnut Blight.** Apply 2 2/3 - 4 teaspoons per gallon of water. Apply first spray at early pre-bloom when catkins are partially expanded. Make additional applications during bloom and early nutlet stage at 7 - 10 day intervals. Additional applications may be necessary when frequent rainfall occurs.

## VEGETABLE CROPS

**BEANS, Bacterial Blight (Halo & Common).** For protective sprays, apply first application when plants are six inches high. Apply on 7 - 14 day schedule depending on local conditions. Use 1 1/3 to 4 teaspoons per gallon of water depending on disease severity.

**BROCCOLI, BRUSSELS SPROUT, & CAULIFLOWER, Downy Mildew.** Apply 2/3 to 1 1/3 teaspoons per gallon of water at 7 day intervals. **NOTE:** Reddening of older leaves may occur on broccoli at the higher rate.

**CABBAGE, Downy Mildew.** Apply 2/3 - 1 1/3 teaspoons per gallon of water at 7 day intervals. Use higher rate when conditions favor disease. **Black Rot (Xanthomonas) & Black Leaf Spot (Alternaria).** Apply 2 2/3 teaspoons per gallon at 7 to 10 day intervals beginning after transplants are set in field or shortly after emergence of field seeded crops or when conditions favor disease development. **NOTE:** Flecking of wrapper leaves may occur at the 2 2/3 teaspoons per gallon of water rate.

**CANTALOUPE, HONEYDEWS & MUSKMELONS, Downy Mildew.** Apply at 2 2/3 teaspoons per gallon of water beginning when conditions are favorable for disease development and repeat at 5 - 7 day intervals as needed depending on disease severity.

**CARROTS, Carrot Blight (Cercospora).** When disease threatens apply 2 2/3 teaspoons per gallon of water at 7 to 14 day intervals depending on disease severity.

**CELERY & CELERIAC, Early, Late & Bacterial Blights.** Apply as soon as plants are first established in the field at 2 2/3 teaspoons per gallon of water, then every 5 - 7 days depending on disease severity and weather.

**CUCUMBERS, Angular Leaf Spot & Downy Mildew.** Apply weekly once the plants begin to vine. Use at 2 to 2 2/3 teaspoons per gallon of water.

**EGGPLANT, Alternaria Blight, Anthracnose, Phomopsis.** Use 2 2/3 teaspoons per gallon of water before disease appears. Repeat at 7 to 10 day intervals. (EXCEPT CALIFORNIA)

**ENIVE, ESCAROLE, Downy Mildew.** Apply 1 1/3 to 2 2/3 teaspoons per gallon of water. Begin treatment when disease first appears and repeat every 7 - 10 days as needed to suppress disease.

**LETTUCE, Downy Mildew.** Apply 1 1/3 to 2 2/3 teaspoons per gallon of water. Begin treatment when disease first appears and repeat every 7 - 10 days as needed to suppress disease. **CAUTION:** Do not buffer spray mixture - may cause phytotoxicity.

**ONION, Purple Blotch & Downy Mildew.** Apply at 2 2/3 teaspoons per gallon of water when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals.

**PEAS, Powdery Mildew.** Begin spray treatment when disease symptoms first appear. Use 2 to 4 teaspoons per gallon of water according to disease severity. Repeat applications at weekly intervals.

**PEPPERS, Bacterial Spot.** When disease threatens, apply 2 2/3 to 4 teaspoons per gallon of water at 5 to 10 day intervals depending on disease severity.

**POTATOES, Early & Late Blight.** Apply at 7 to 10 day intervals starting when plants are 6 inches high until two weeks before harvest. Apply 1 1/3 to 2 teaspoons per gallon of water in those locations where disease is light and up to 4 to 5 1/3 teaspoons per gallon of water where disease is severe.

**PUMPKIN & SQUASH, Powdery Mildew.** Begin application when plants are three weeks old or when first disease symptoms appear. Use at weekly intervals - 2 to 4 teaspoons per gallon of water depending on disease severity.

**SPINACH, Anthracnose, Cercospora Leafspot, Downy Mildew, White Rust.** Apply 2 2/3 to 5 1/3 teaspoons per gallon of water. Begin treatment when disease first appears and repeat every 7 - 10 days as needed to suppress disease.

**TOMATOES, Early Blight.** When disease threatens, apply 2 2/3 to 4 teaspoons per gallon of water at 7 - 10 day intervals, or as necessary. **Bacterial Speck.** Apply at 2 2/3 teaspoons per gallon of water at 10 - 30 day intervals beginning when the disease threatens. Use more frequent applications when disease pressure is high. **Bacterial Spot, Anthracnose, Gray Leaf Mold & Septoria Leaf Spot.** When disease threatens, apply 2 2/3 to 5 1/3 teaspoons per gallon of water at 7 - 10 day intervals, more frequently when disease is severe.

**WATERMELON, Anthracnose & Downy Mildew.** Apply as soon as plants become established and at weekly intervals thereafter. **Anthracnose.** Use at 2 2/3 teaspoons per gallon of water. **Downy Mildew.** Use at 2 to 4 teaspoons per gallon of water, according to disease severity.

## HOMEOWNER LABEL PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed, absorbed by skin or inhaled. Avoid contact with skin, eyes or clothing. May cause eye irritation. May cause skin sensitization in certain individuals. Wash thoroughly with soap and water after handling. Do not apply this product in a manner as to directly expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter area without protective clothing until spray has dried.

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 to 2 glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF IN EYES:** Flush with plenty of water. Get medical attention if irritation persists.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters.

### STORAGE AND DISPOSAL

Store in cool, dry place. Keep away from children and household pets. Store in original container and keep in a locked storage area. When original container is empty, securely wrap the container in several layers of newspaper and discard in trash.

### WARRANTY STATEMENT

AGTROL CHEMICAL PRODUCTS warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes all risk of any such use.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

55146-41