

09-MAR-2010  
2009-3368  
11-JUN-2010 2010-2110 Notification :  
Addition of Emergency Number

<b>GROUP</b>	<b>M</b>	<b>FUNGICIDE</b>
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USE BAG

**COPPER 53W**

WETTABLE POWDER

COMMERCIAL

WARNING POISON

READ THE LABEL BEFORE USING

REGISTRATION NO. 9934  
PEST CONTROL PRODUCTS ACT

GUARANTEE: Copper from tri-basic copper sulphate 53%  
IN CASE OF EMERGENCY DUE TO A MAJOR SPILL,  
FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273  
UNITED AGRI PRODUCTS CANADA INC.  
789 Donnybrook Drive  
Dorchester, Ontario  
N0L 1G5  
1-800-265-4624

Notification Change

NET CONTENTS: 10 kg

01/07

DIRECTIONS FOR USE

Crops	Disease	Rate	Remarks*
APPLE PEAR	Fire Blight		Use 1 kg COPPER plus 6 kg of Hydrated Lime (Bordeaux Mixture) per 1000L of water

REMARKS

IF FIRE BLIGHT IS A LIGHT PROBLEM: Apply when the temperature is at 21°C during the bloom period. Apply in a dilute spray of 3000 L/ha. Do not use STREPTOMYCIN 17 after using the COPPER plus Hydrated Lime spray.

IF FIRE BLIGHT IS A MODERATE PROBLEM: Use STREPTOMYCIN 17 after first blossoms are open. Then use the Bordeaux mixture when half the blossoms have opened and the following weather conditions occur or are expected: temperature 18°C and rainfall, or 18°C plus relative humidity 60% or higher. Apply 3000 L/ha of dilute spray.

MIXING: Pre-mix the Hydrated Lime in a pail with enough water to make a slurry. Pour this lime slurry through a 0.3 mm screen into the spray tank. Add the mixture to the spray tank when partly filled with water and the mechanical agitator is running. Allow 15 minutes of mixing before starting to spray. Keep the agitator going during the spraying operation until the whole tank full is sprayed out.

COMPATIBILITY: This mixture is incompatible with all other insecticides and fungicides.

FIRE BLIGHT: May be spread to healthy plants by insects such as aphids and leafhoppers. Diseased twigs which appear to be "scorched" must be cut off 15 cm below the infected part and burned; disinfect pruning shears after each cut in solution of 1 part "Javex" (chlorine bleach) to 4 parts water.

Crops *	Disease	Rate	Remarks*
APPLE- cv. Mutsu (Crispin) And other Sensitive Cultivars such as Jonagold	Apple Blister Spot (Pseudomonas syringae pv papulans)	3 kg/ha	Rate is given in terms of Copper 53W per 3000L of water. Use hydrated lime as a safener at a rate of 6 kg per 1 kg of Copper 53W per 1000L of water. Maximum of three applications per year. Apply first spray 10 days after calyx and again if required at 10 day intervals. Spray to runoff in 3000L water/ha. The preharvest interval is 30 days. Ground application only.
APRICOT PEACHES NECTARINE (British Columbia only)	Coryneum Blight	4 kg/1000 L	Apply in September after harvest complete.
PEACHES NECTARINE	Leaf Curl Anthracnose	4 kg/1000 L	Apply in fall after leaves have fallen or in the spring before buds break. May be used with spray oil where applied in the spring. Follow use directions on the oil label.
SOUR CHERRIES	Brown Rot Leaf Spot	2 kg/1000 L	Apply in all regular sprays except blossom spray. Add 4 Kg of hydrated lime per 1000 L.
GRAPES	Dead Arm Black Rot Downy Mildew	3 Kg/1000 L	Apply according to local spray calendar recommendations. Add 6 Kg of hydrated lime per 1000 L. Copper cannot be used on French hybrid or vinifera varieties
CURRENTS GOOSEBERRIES	Anthracnose, Phyllosticta leaf spot, Powdery Mildew, Septoria Leaf Spot	3 to 5 kg/1000 L	Apply according to local spray calendar recommendations. Add 4 Kg of hydrated lime per 1000 L.
RASPBERRIES	Bacterial blight	5 kg/ha, mixed in 1000L water	Apply once before fall rains begin and apply 4 kg in 1000 L/ha with bud burst and repeat twice at 14 day intervals.
STRAWBERRIES	Leaf spot	2.5-3.8 kg/ha in 1000 L water.	Apply according to local spray calendar recommendations.
BEANS	Anthracnose, Downy Mildew, Bacterial Leaf Spot	5.5 Kg/ha	Apply as needed to keep plants covered.
BEET CARROT	Cercospora Leaf Spot	4 kg/ha	Apply according to local spray calendar recommendations.

Crops *	Disease	Rate	Remarks*
CABBAGES BROCCOLI CAULIFLOWER	Downy Mildew, Black Leaf Spot Grey Leaf Spot	4 Kg/ha	Apply according to local spray calendar recommendations.
CELERY	Early and Late Blights Anthracnose Leaf mold Septoria leaf spot	3.25 to 6.5 Kg/ha	Apply when the plants are 10 to 12cm high and repeat at intervals of 7 to 10 days throughout the season. Vary the rate according to the degree of leaf development.
CUCUMBER (field) SQUASH PUMPKIN MELON WATERMELON	Angular Leaf Spot Anthracnose Downy Mildew Scab	2.5 - 3 kg/ha	Apply in 1000 L of water. Apply according to local spray calendar recommendations.
EGGPLANT	Early blight, Late blight	4 kg/ha mixed in 1000 L water.	Apply according to local spray calendar recommendations.
POTATOES	Early and Late Blights	5.5 Kg/ha	Apply when plants are 12 to 18 cm high. Repeat at 7 to 10 day intervals.
SPINACH	Downy Mildew White Rust	2.5 kg/ha	Apply according to local spray calendar recommendations.
TOMATOES (Field) PEPPER	Anthracnose, Early and Late Blights, Leaf mould, Septoria Leaf Spot	4.5 Kg/ha on Tomatoes 4 kg/ha on Pepper	Apply when plants are 15 cm tall and repeat at 7 to 10 day intervals.
HOPS	Downy Mildew	4-5 Kg/1000 L	Four applications at weekly intervals.
ROSE	Powdery Mildew Downy Mildew Black Spot, Leaf Spot	6 kg/ha	Apply in 1000 L water/ha. Repeat at 7-10 day intervals.

\*Apply in sufficient water for thorough coverage.

DO NOT APPLY TO THESE CROPS WITHIN ONE DAY OF HARVEST OR AS OTHERWISE NOTED.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the use described below were developed by persons other than United Agri Products Canada Inc. United Agri Products Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) in connection with the use described below.

Accordingly, the Buyer and User assume responsibility for all damage or loss arising, and agree to hold United Agri Products Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described below.

**DIRECTIONS FOR USE**

**BRUSSELS SPROUTS**

Follow provincial government recommendations for application timing.

Apply with ground equipment only. DO NOT APPLY BY AIR.

Crop	Pests	Rate per Ha	Maximum No. of Applications per season	Interval between Applications	Days Before Harvest
Brussels Spouts	Bacterial Leaf Spot Downey Mildew Black Leaf Spot Grey Leaf Spot	4 kg/ha mixed in a maximum of 1000L water	2	2-3 weeks	1

#### PRECAUTIONS

Keep out of reach of children. Store in a cool, dry, ventilated place, away from feeds and foods. Keep away from heat, fire and sparks. May irritate eyes, nose, throat and skin. May discolour skin. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling and before eating, drinking, or smoking. Wash contaminated clothing with soap and hot water before reuse. Avoid breathing dust or spray mist. Do not contaminate food or feed. Do not contaminate any body of water. When spraying on copper-sensitive plants, add hydrated lime to prevent injury. DO NOT APPLY BY AIR.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S. , visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

#### RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that COPPER 53W Fungicide contains a Group M fungicide. Any fungal population may contain individuals naturally resistant to COPPER 53W Fungicide and other Group M fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of COPPER 53W Fungicide or other Group M fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development. If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens. For further information and to report suspected resistance, contact the Technical Service, United Agri Products, 1-800-265-4624 or at [www.uap.ca](http://www.uap.ca).

#### FIRST AID

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

#### DISPOSAL

1. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
2. Make the empty container unsuitable for further use.
3. Disposal of the container in accordance with provincial requirements.
4. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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