

2011-2940  
2011-09-08

Bag Label

Bag Label

GROUP	<b>M</b>	FUNGICIDE
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# **KOCIDE® DF**

FUNGICIDE/BACTERICIDE

DRY FLOWABLE

AGRICULTURAL  
FUNGICIDE

GUARANTEE: Elemental copper present as copper hydroxide.....40%

**KEEP OUT OF REACH OF CHILDREN**

READ THE LABEL BEFORE USING

REGISTRATION NO. 24538 PEST CONTROL PRODUCTS ACT

DANGER  
POISON

EYE IRRITANT

NET CONTENTS: 10 KG

E. I. du Pont Canada Company  
Agricultural Products  
P.O. Box 2300 Streetsville  
Mississauga, Ontario  
L5M 2J4  
1-800-667-3925

## **DIRECTIONS FOR USE ENCLOSED**

### **PRECAUTIONS:**

#### **KEEP OUT OF REACH OF CHILDREN**

Fatal if swallowed. Do not get in eyes. Wear goggles, long pants, a long-sleeved shirt and shoes plus socks during mixing/loading, application, clean-up and repair. In addition, wear chemical-resistant gloves during mixing/loading, clean-up and repair. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Remove clothing/personal protective equipment immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the products concentrate. Do not reuse them.

For cleaning/maintaining personal protective equipment, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval of 48 hours.

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/).

### **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 five 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.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

### **TOXICOLOGICAL INFORMATION**

Unless extensive vomiting has occurred, empty the stomach by gastric lavage with water, milk, sodium bicarbonate solution, or a 0.1% solution of potassium ferrocyanide (Gosselin, Clinical Toxicology of Commercial Products, 5th ed.). Administration of gastric lavage should be performed by qualified medical personnel. Probable mucosal damage may contraindicate use of gastric lavage.

For medical emergencies call 1-800-441-3637 (24 hours).

### **DISPOSAL**

1. Completely empty bag into spray mixture tank.
2. Make the empty bag unsuitable for further use.

3. Dispose of the container in accordance with provincial requirements.
4. For information on 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.

Kocide® is a registered trademark of Griffin Corporation.

DFU Booklet

DFU booklet

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## DIRECTIONS FOR USE

Kocide® DF is adaptable to spraying from all types of spray equipment. It can be used in high or low volume sprays. No additional surfactants are needed. Add Kocide® DF slowly to a spray tank partially filled with water. Spreader-stickers, insecticides, nutrients, etc. should be added last. Kocide® DF is compatible with commercially formulated spreader-stickers, non-herbicidal agricultural oils, and insecticides. The following specific instructions are based on general applications. However, the recommendations of local Agricultural Extension Specialists should be closely followed as to timing, frequency, and number of sprays per season.

DO NOT APPLY BY AIR.

### Buffer zones

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Use Site	Buffer Zones (meters) Required for the Protection of:				
		Freshwater habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer	Potatoes, peppers	40	20	20	10	1
	Tomatoes	45	20	25	10	1

\* For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labeled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labeled buffer zone can be reduced by 30%.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Kocide® DF contains a Group M fungicide which is generally considered to have a low risk of resistance development. However, as a general principal, it is recommended not to rely exclusively on the same product for pest control. To prolong effectiveness of this product, the following resistance management strategies should be followed.

To delay fungicide resistance:

- Use tank mixtures with fungicides/bactericides from a different group when such use is permitted.
- Fungicide/bactericide 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.

- If this product appears to be no longer effective for a pest which it previously controlled or suppressed, contact the manufacturer and your local extension specialist or certified crop advisor to assist in determining the cause of reduced performance.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops or pathogens.
- For further information or to report suspected resistance, contact DuPont at 1-800-667-3925.

## **SPECIFIC INSTRUCTIONS**

**PEPPERS**, *Bacterial Spot*. When disease threatens, apply 2.25-3.25 kg/ha Kocide® DF with 2.25-3.25 kg/ha of 80% Zineb at 7 to 14 day intervals depending on disease severity. Do not apply to within 1 day of harvest.

**TOMATOES**, *Bacterial Canker (Corynebacterium michiganensis)*, *Septoria Leaf Spot*, *Early and Late Blight*. When disease threatens, apply at 2.25 kg/ha Kocide® DF at 7 to 10 day intervals, combined with 1.75-2.25 kg/ha maneb or Mancozeb (80%). Do not apply within 1 day of harvest.

**POTATO**, *Early and Late Blights*. Apply at 7 to 10 day intervals starting when plants are 15 cm high until harvest. Use at 1.1-1.7 kg/ha Kocide® DF, depending on foliage density, combined with 1.75-2.25 kg/ha of Mancozeb. Use Kocide® DF at 3.4 kg/ha alone after vinekill, prior to harvest. This late treatment may reduce infection of tubers by the late blight fungus during harvesting. Do not apply within one day of harvest.

DO NOT apply this product more than 10 times per year.

DO NOT apply this product in a way that will contact workers or bystanders, either directly or through drift. Only protected handlers may be in the area during application.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine/marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

## **ENVIRONMENTAL HAZARDS.**

TOXIC to birds, small wild mammals, aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

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