



**SPECIAL LOCAL NEED  
24(C)LABELING**

**ManKocide®  
FOR USE ON CARROTS  
GROWN FOR SEED**

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF OREGON

**ManKocide®**

EPA Reg. No. 1812-360  
EPA SLN No. OR-010033

**FOR USE ON CARROTS GROWN FOR SEED  
TO PREVENT BACTERIAL BLIGHT**

This label is valid until December 31, 2009, or until otherwise amended, withdrawn, canceled, or suspended.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This label and the federal label for this product must be in the possession of the user at the time of pesticide application. Follow all applicable directions, restrictions and precautions on this supplemental label and the main EPA-registered label. 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 agency responsible for pesticide regulation.

<b>ACTIVE INGREDIENTS</b>	
Mancozeb, a coordination product of zinc ion and manganese ethylenebisdithiocarbamate.....	15.0%
in which the ingredients are	
Manganese.....	3.0%
Zinc.....	0.4%
Ethylenebisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ).....	11.6%
Copper Hydroxide (Metallic Copper Equivalent - 30%) .....	46.1%
<b>INERT INGREDIENTS.....</b>	<b>38.9%</b>
<b>TOTAL .....</b>	<b>100.0%</b>

<b>AGRICULTURAL USE REQUIREMENTS</b>
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for 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 24 hours without recommended PPE.
The following equipment and precautions must be followed for 7 days following the application of this product:

**KEEP OUT OF REACH OF CHILDREN  
DANGER - PELIGRO**

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water, 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 fish and aquatic organisms in adjacent aquatic sites. Do not allow rinsate from cleaning of equipment or disposed material to enter surface or ground water.

For product information call 1-888-6-DUPONT

© 2005 E. I. du Pont de Nemours and Company, Crop Protection, Wilmington, Delaware 19898

## AGRICULTURAL USE REQUIREMENTS (CON'T)

-An eye-flush container, designed specifically for flushing eyes, must be available at the WPS decontamination site for workers entering the area treated with copper hydroxide (an active ingredient in ManKocide).

- Notify workers of the application by warning them orally that residues in the treated areas may be highly irritating to their eyes and to take precautions such as refraining from rubbing their eyes and if they get residues in their eyes they should immediately flush their eyes using the eye-flush container.

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:

Coveralls over long-sleeved shirt and long pants

- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

### Instructions for Control of Bacterial blight (*Xanthomonas campestris*)

**Timing and Frequency of Application:** Apply prior to conditions conducive to infection, such as precipitation, overhead irrigation, and frost and winds strong enough to create plant wounding via blown sand and dirt. Repeat applications on a 7-14 day interval depending on plant growth and disease pressure. Early treatment in the seedling-to-4 leaf stage may protect against early spread and establishment.

ManKocide is a protective material and should be applied prior to establishment of infections. ManKocide will not eradicate infections which are already established, but will provide partial protection from the establishment of new infections. Thus, its use even after disease is established may prevent or delay further disease development.

**Application Rate and Directions:** Apply 2.5 lbs product per acre. Dilution rate should be adequate to provide thorough coverage of all leaf and stem tissue. For optimal disease control, arrange nozzles and adjust gallonage to ensure excellent coverage of both sides of leaves and of stems. This product may be applied either as a dilute or concentrate spray using ground or aerial equipment. For a typical boom ground sprayer use approximately 25-50 gallons of water/acre, and 10-20 gallons per acre for aerial applications.

Add ManKocide slowly to water in the spray tank with agitation, or premix thoroughly in separate holding tank for concentrate for aircraft sprayers. Continuous agitation is recommended to keep the product in suspension. If needed, adjuvants of the spreader, sticker, or compatibility agent type that are approved for use on growing crops may be used.

During aerial application, human flaggers must be in enclosed cabs.

### PRECAUTIONS AND RESTRICTIONS

- ManKocide **should not be applied** in a spray solution having a pH of less than 6.5 as phytotoxicity may occur.
- This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.
- Environmental conditions such as extended periods of wet weather, acid rain, etc. which alter the pH of the leaf surface may affect the performance of ManKocide resulting in possible phytotoxicity or loss of effectiveness.
- Pesticides may perform in an unpredictable manner when tank mixed especially where several products are involved. Reduced effect on pests or crop injury may occur. Unless recommended on this label or by a state/local expert, or the user has small scale direct experience, tank mixing should not be undertaken.
- **Do not** apply this product via chemigation.
- Mixing of this product with products containing diazinon, fosetyl-al or other aluminum containing products, or thiophanate-methyl is not recommended because of physical incompatibility.
- It must be determined in the selection process if proper application equipment is available and if the waste associated with its use can be properly handled. Materials used in the construction of application equipment is also an important factor as pesticides are often reactive with soft metals such as aluminum and even some synthetic materials such as plastics, rubbers, etc. Therefore it is necessary when working with equipment containing these materials that they are thoroughly flushed with clean water after each days use.

### Special Crop Use Restrictions

The pesticide applicator, the producer of the crop, and the seed conditioner must be aware that use of this product according to this labeling is deemed a non-feed/non-food use by the Oregon Department of Agriculture, and is regulated by Oregon Administrative Rule (OAR) 603-057-0535, Pesticide Use On Crops Grown For Seed. If the applicator of this pesticide is not the producer, the applicator should provide a copy of this labeling to the producer of the crop. Producers of this crop who use this product, or cause the product to be used on a field they operate, should provide a copy of this pesticide label to the seed conditioner.

This pesticide does not have an established pesticide residue tolerance for this crop. Consequently, no portion of this seed crop may be used or distributed for food or feed. This restriction pertains to, but is not limited to, green chop, hay, pellets, meal, whole seed, cracked seed, straw, roots, bulbs, foliage or seed screenings, and to the grazing of the crop field, stubble or regrowth. All seed screenings shall be disposed of in such a manner that the screenings cannot be distributed or used for food or feed purposes, as indicated in OAR 603-057-0535. Additional regulations concerning seed screenings are stated in OAR 603-057-0535.

Any seed from a field treated with this pesticide product shall bear specific and conspicuous container labeling, or if shipped in bulk, on the shipment invoice or bill of lading. The labeling shall contain the following statement:

"This seed was produced using one or more products for which the United States Environmental Protection Agency has not established pesticide residue tolerances. This seed, in whole, as sprouts, or in any form, may not be used for human consumption or animal feed. Failure to comply with this condition may violate requirements of the Federal Food and Drug Administration, the Oregon Department of Agriculture and other regulatory agencies."

ManKocide is a registered trademark of Griffin Corporation. Griffin and Design are a registered trademark of Griffin Corporation.

**IMPORTANT  
BEFORE USING MANKOCIDE®, READ AND FOLLOW  
ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND  
PRECAUTIONS ON THE EPA-REGISTERED LABEL.**

This bulletin contains new or supplemental instructions for use of this product which do not appear on the EPA-registered package label. Follow the instructions carefully.

This labeling must be in the possession of the user at the time of pesticide application.

Read the Limitation of Warranty and Liability on the Section 3 Federal product label before buying or using this product. If terms are not acceptable, return the unopened package at once to Seller for full refund of purchase price paid. Otherwise, use by Buyer or any other User constitutes acceptance of the terms of the Limitation of Warranty and Liability on the Section 3 Federal product label.

GR-431 011905-2 01-21-05