



**DuPont Crop
Protection**

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

**DuPont™ ManKocide®
Fungicide/Bactericide
FOR USE ON CARROTS
GROWN FOR SEED**

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF WASHINGTON

DuPont™ ManKocide® Fungicide/Bactericide

EPA Reg. No. 352-690
EPA SLN No. WA-030030

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

DIRECTIONS FOR USE

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

This labeling must be in the possession of the user at the time of application. Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA registered label.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. DuPont ManKocide Fungicide/Bactericide should not be used under this SLN label where impact on listed threatened or endangered species is likely. You may refer to the WSDA Endangered Species Program web site at <http://agr.wa.gov/PestFert/NatResources/EndangSpecies.htm>, or contact the Washington Department of Fish & Wildlife, National Marine Fisheries Service (NOAA Fisheries) or US Fish & Wildlife Service for information regarding aquatic species listed as threatened or endangered. Consult the federal label for additional restrictions and precautions to protect aquatic organisms.

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

Cultural Practices: The use of disease-free seed is recommended. A two- to three- year rotation and fall plowing or disking may reduce the number of bacteria and fungal spores that can survive in infected plant residues and cause carrot leaf blight.

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.

Good coverage of the lower leaves in the canopy is essential. Application using aerial methods is not a direct replacement for application using ground methods and may result in unacceptable coverage of the lower leaves in the canopy.

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

PRECAUTIONS AND RESTRICTIONS

For product information call 1-888-6-DUPONT

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- Do not apply more than 10 applications or 25 lbs ManKocide per acre per season.
- 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 through any irrigation (chemigation) system using aluminum parts or components as damage to the system may occur. Such application is prohibited regardless of whether the irrigation system is flushed with water after use of this product. Apply this product only through overhead sprinklers, including center pivot, solid set or portable (wheel move) irrigation systems in 0.1 to 0.3 inches of water. Do not apply this product through any other type of irrigation system.
- Mixing of this product with products containing diazinon, fosetyl-al or other aluminum containing products, or thio-phanate-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.
- To protect endangered aquatic organisms, use one of the following options: (1) Apply only when there is sustained wind away from fish-bearing waters, or (2) Leave an untreated buffer (25 feet for ground applications, 50 feet for chemigation applications, 150 feet for aerial applications) between treatment area and fish-bearing waters.

All carrot seed screenings shall be disposed of in such a way that they cannot be distributed or used for human food or animal feed. The seed conditioner shall keep records of screening disposal for three years from the date of disposal and shall furnish the records to the WSDA immediately upon request. Disposal records shall consist of documentation from a controlled dumpsite, incinerator, or other equivalent disposal site and shall show the lot numbers, amount of material disposed of, its grower(s), and the date of disposal.

No portion of the carrot seed plant, including but not limited to green chop, hay, pellets, meal, whole seed, cracked seed, roots, bulbs, leaves and seed screenings may be used or distributed for food or feed purposes.

Carrot seed shall bear a tag or container label which forbids use of the seed for human consumption or animal feed.

Carrot seed may not be distributed for human consumption or animal feed.

WSDA Chemigation Guidance:

- Application off-site is prohibited. The chemigation application must be continuously observed whenever sensitive areas as defined in WAC 16-202-1002(44) (including but not limited to schools, parks, dwellings, occupied buildings or structures, public roadways, and waters of the state) are at risk of being exposed to drift, runoff, or overspray. In order to minimize the potential for application off-site, WSDA recommends that the product only be applied through low pressure irrigation systems (defined as 2 to 35 pounds/square inch) with a nozzle release height no higher than 3 feet above the target crop, and that end guns be disabled throughout the application.
- An inspection port or a direct access point is required, and it must be positioned immediately upstream of the irrigation mainline check valve and be of sufficient size to allow visual and manual inspection of the check valve and low pressure drain. The inspection port or access point must have a minimum diameter of four inches, if feasible (WAC 16-202-1012[1]).
- The chemigation application tank cannot be placed within 20 feet of the wellhead or other sensitive areas. Mixing or loading activities cannot occur within 20 feet of the wellhead or other sensitive areas (WAC 16-202-1008[1]).
- WSDA Chemigation Rules (WAC 16-202-1001 through WAC 16-202-1024), and information on USEPA Authorized Alternative Chemigation Safety Equipment, Distribution Uniformity and other chemigation topics are available on the WSDA website (<http://agr.wa.gov/PestFert/ChemFert/default.htm>).

WSDA Container Disposal Guidance

Pesticide containers must be properly cleaned prior to disposal. The best time to clean empty pesticide containers is during mixing and loading, because residue can be difficult to remove after it dries. Triple rinse (or pressure rinse) the pesticide container, empty all pesticide rinse water into the spray tank, and apply to a labeled crop or site. Recycling cleaned containers is the best method of container disposal. Information regarding the recycling of empty and cleaned plastic pesticide containers in Washington is available on the WSDA Waste Pesticide Program web site at <http://agr.wa.gov/PestFert/Pesticides/WastePesticide.htm>. Cleaned containers may also be disposed of in a sanitary landfill, if permitted by the county. Burning is not a legal method of container disposal in Washington.

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**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 label for DuPont ManKocide Fungicide expires and must not be distributed or used in accordance with this SLN registration after December 31, 2012.

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