



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

90332-2

Date of Issuance:

12/17/2014

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

CY-MANCO 4-40 WDG
Fungicide

Name and Address of Registrant (include ZIP Code):

Zenith Crop Sciences, S.A.
Aubunt 36, PO Box 880
FL 9490 Vaduz, Liechtenstein

Mailed To:

Dr. Don O'Shaughnessy
D. O'Shaughnessy Consulting, Inc.
427 Hide Away Circle
Cub Run, KY 42729

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Hope A. Johnson, Product Manager 21
Fungicide Branch, Registration Division (7505P)

Date:

12/17/2014

2. You are required to comply with the data requirements described in the DCI identified below:
 - a. Cymoxanil GDCI-129106-1202.

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: http://www.epa.gov/oppsrrd1/contacts_prd.htm

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 90332-2."
 - Add appropriate Net Contents information to the label
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 7/28/2014
- Alternate CSF #1 dated 7/28/2014
- Alternate CSF #2 dated 7/28/2014
- Alternate CSF #3 dated 7/28/2014
- Alternate CSF #4 dated 7/28/2014
- Alternate CSF #5 dated 7/28/2014
- Alternate CSF #6 dated 7/28/2014
- Alternate CSF #7 dated 7/28/2014

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Decision No. 486410

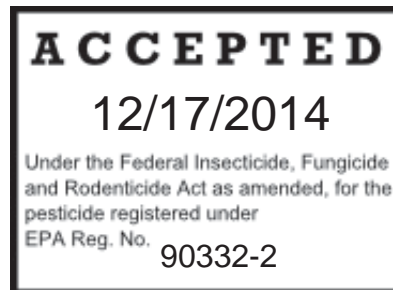
If you have any questions, please contact Tamue L. Gibson at (703) 305-9096 or gibson.tamue@epa.gov.

Hope A. Johnson, Product Manager 21
Fungicide Branch
Registration Division (7505P)

Attachments:

- Product Chemistry Review of New End Use Product, dated September 22, 2014, D422647
- Product Chemistry Review of New End Use Product, dated July 24, 2014, D418416
- Acute Toxicity Data Evaluation Record (DER) for CY-Manco 4-40 WDG Fungicide dated July 1, 2014, DP Barcode D418416

CY-MANCO 4 - 40 WDG FUNGICIDE



ACTIVE INGREDIENT:

Mancozeb (a coordination product of zinc ion and manganese ethylenebisdithiocarbamate)			40.0 %
manganese++	8.0%		
zinc	1.0%		
ethylenebisdithiocarbamate ion	31.0%		
Cymoxanil			4.0 %
OTHER INGREDIENTS			56 %
TOTAL:			100.0 %

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID
<p>IF ON SKIN</p> <ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<p>IF SWALLOWED:</p> <ul style="list-style-type: none"> Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by the poison control center or doctor. Do not give anything to an unconscious person.
<p>IF IN EYES:</p> <ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC at 1-800-424-9300.</p>
<p>This product contains mancozeb and ETU, chemicals known to the State of California to cause cancer. ETU is also known to the State of California to cause birth defects or other reproductive harm.</p>

EPA Reg. No. 90332- E

EPA Est. No. 90332-BGR-1

Net Contents _____

Batch No. _____

Manufactured For:
 Zenith Crop Sciences, S.A.
 Aubundt 36, PO Box 880
 FL 9490 Vaduz, Liechtenstein
 tel. 00359 888 576 735

Product of Bulgaria

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are nitrile rubber, natural rubber, or butyl rubber.

Mixers, loaders, applicators and other handlers must wear:

- long-sleeved shirt
- long pants
- shoes and socks
- chemical-resistant gloves made of any waterproof material.

In addition, for aerial application of CY-MANCO 4-40 FUNGICIDE on lettuce (leaf and head), occupational handlers performing mixing / loading operations must wear a particulate respirator with an N, R, P or HE filter NIOSH approval prefix TC-84A.

See engineering controls for additional requirements.

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbed materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering Controls

Enclosed Cockpits: Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)].

Mechanical Flagging Engineering Controls: Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic organisms. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

DIRECTIONS FOR USE

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

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the 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 interval. 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). The REI for each crop is located within the use directions for each crop.

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, oil or water, is:

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

PRODUCT INFORMATION

Read all Directions For Use carefully before applying.

Apply as a spray with ground, or air equipment using specified amounts of water to obtain through coverage to plants. Use only commercial or farm plantings. Not for use in residential plantings, or once any commercial crop is turned into U-pick, Pick Your Own or similar operation. For ground application, apply a minimum of 20 gallons of water per acre, increasing the spray volume as the plants mature to ensure through coverage of plant foliage.

For air assisted ground application, apply a minimum of 10 gallons of water per acre.

For aerial application, apply a minimum of 2 gallons of water per acre.

On vegetable and field crops, 2 to 3 gallons of spray per acre are generally optimum; orchards and vineyards can be handled with spray volumes of 5 gallons per acre. Some tall or dense foliage crops requiring greater penetration to the lower leaf surface will require higher spray volumes. Do not apply this product in fewer than 5 gallons spray volume per acre in California.

PRODUCT MIXING INSTRUCTIONS

- 1) Fill the spray tank to 1/4 to 1/3 full of water.
- 2) While agitating, add the specified amounts of CY MANCO 4-40 FUNGICIDE to the spray tank.
- 3) Continue agitating until CY MANCO 4-40 FUNGICIDE is fully dispersed, at least 5 minutes.
- 4) Apply CY MANCO 4-40 FUNGICIDE spray mixture within 12 hours of mixing to avoid product degradation.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (i.e. wind direction, wind speed, temperature, relative humidity) and method of application (i.e. ground, aerial, airblast, chemigation) can influence pesticide drift. The application must evaluate all factors and make appropriate adjustments when applying this product.

WIND SPEEDS

Do not apply at wind speeds greater than 15 miles per hour (mph).

TEMPERATURE INVERSIONS

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

OTHER STATE AND LOCAL REQUIREMENTS

Applications must follow all state and local pesticide drift requirements regarding application of mancozeb where states have more stringent regulations, they must be observed.

EQUIPMENT

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carrier or surrogates.

Additional requirements for aerial applicators:

1. The boom length must not exceed 75% of the wing span or 90 % of the rotor blade diameter.
2. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
3. When applications are made with a crosswind, the swath must be displaced down wind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

Additional requirements for ground boom application:

1. Do not apply with a nozzle height greater than 4 feet above the crop canopy.

Application

Ground

Thorough coverage with foliar sprays generally results in optimum disease control. To achieve satisfactory coverage use proper spray pressure, volume of spray mixture per acre, nozzles (generally hollow cone), disc (generally D-5 to D-7), nozzle spacing, and tractor speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

Hand Sprayers

Thoroughly spray plant foliage until runoff.

Aerial

For aerial application of CY MANCO 4-40 FUNGICIDE to lettuce (head and leaf), occupational handlers performing mixing / loading operations must wear a particulate respirator with an N, R, P or HE filter NIOSH approval prefix TC-84A.

A uniform initial spray deposit over the crop canopy generally results in optimum disease control. Each aircraft should be pre-checked for droplet size, uniformity of spray pattern, swath width, and spray volume. During aerial application, human flaggers are prohibited.

Nozzle selection: Hollow cone brass nozzles with a D-series orifice disc and core (whirlplate) are recommended. Nozzles should point straight down or slightly backward.

Swath width: For most field and vegetable crops, swaths just beyond the wingspan of 36 to 40 feet for light aircraft and up to 45 feet for heavier aircraft are suggested. Optimum swath for helicopters is usually 5 to 10 feet beyond normal boom length.

Altitude: For most crops, position the spray boom 5 to 10 feet above the crop canopy.

Flagging: Mark swaths at the end of the field with permanent flags. Measure swaths accurately with a chain or other device except when rows can be accurately counted.

Crop Restrictions

Cucurbits, lettuce (head and leaf), potatoes, and tomatoes may be re-planted anytime after CY MANCO 4-40 FUNGICIDE applications. All other crops cannot be planted until 30 days after CY MANCO 4-40 FUNGICIDE application.

Foliar Applications

Where EBDC Products Used Allow the Same Maximum Poundage of Active Ingredient Per Acre Per Season:

If more than one product containing an EBDC active ingredient (maneb, mancozeb, or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum amount in pounds of active ingredient per acre per season, then the total pounds active ingredient of all such EBDC products used must not exceed any one of the specified individual EBDC product maximum season pounds of active ingredient allowed per acre.

Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient Per Acre Per Season:

If more than one product containing an EBDC active ingredient is used on a crop during the same growing season and the EBDC products used allow different maximum poundage of active ingredient per acre per season, and the EBDC products used allow different maximum amount in pounds of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

CROP USE DIRECTIONS AND RATE TABLE

Crop	Diseases	Rate CY MANCO 4-40 Fungicide (lb/ acre/ application)	Specific Use Instructions	Pre-Harvest Interval (PHI)
Cucurbit Vegetables: (not for use on cucurbits in the state of California) Chayote Chinese Waxgourd Citron melon Cucumber Gherkin Gourd, edible Momordica Spp. Muskmelon Pumpkin Squash, Summer squash, Winter Watermelon	Alternaria leaf Anthracnose Cercospora Leaf spot Downy Mildew Gummy stem blight Scab	3 – 4.7	Begin applications when plants are in the two-leaf stage and repeat at 7 to 10 day interval when conditions are favorable for disease development. Consult State Cooperative Extension Specialist prior to use.	3 days

Melons Cantaloupes Casaba Crenshaw Honeydew Watermelon	Alternaria leaf Anthracnose Downy Mildew Gummy stem Blight Microdochium blight			
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Restrictions:

- For ground applications, apply a minimum of 20 gallons of spray volume per acre.
- For aerial application, apply a minimum of 5 gallons per acre.
- Do not apply more than 8 applications of CY MANCO 4-40 Fungicide per year.
- Do not apply more than 28 lbs. of product/A per year.
- Restricted Entry Interval (REI): 12 hours

Crop	Diseases	Rate CY MANCO 4-40 Fungicide (lb/acre/app lication)	Specific Use Instructions	Pre- Harvest Interval (PHI)
Grapes (East of the Rocky Mountains only)	Black rot Bunch rot Phomopsis Downy mildew	3.125	Apply at 7-10 day intervals when conditions are favorable for disease development	66 days
Crop	Diseases	Rate CY MANCO 4-40 Fungicide (lb/acre/app lication)	Specific Use Instructions	Pre- Harvest Interval (PHI)
Lettuce (head and leaf)	Downy Mildew (<i>Bremia lactuca</i>)	3 - 4.7	Apply at 7-10 day intervals when conditions are favorable for disease development	3 days for head lettuce 1 day for leaf lettuce 14 days for head or leaf in the State of California

Restrictions: Note: For lettuce, occupational handlers performing mixing/loading operations must wear a particulate respirator with an N, R, P or HE filter NIOSH approval prefix TC-84A.

- In California, do not apply more than 10.6 lb CY MANCO 4-40 Fungicide (6.4 lb mancozeb ai) per acre per crop.
- In states other than California, do not apply more than 16 lb CY MANCO 4-40 Fungicide (9.6 lb mancozeb ai) per acre per crop.
- Do not apply more than 2 applications of CY MANCO 4-40 Fungicide per year.
- Do not apply more than 28 lbs. of product/A per year.
- Do not apply this product with a U-boom device.
- Minimum Retreatment Interval: 7 days.
- Restricted Reentry Interval (REI): 12 hours

Crop	Diseases	Rate CY MANCO 4-40 Fungicide (lb/acre/app lication)	Specific Use Instructions	Pre- Harvest Interval (PHI)
Onions (dry bulb) Garlic Shallots	Botrytis leaf blight Downy mildew Neck rot Purple blotch (not in the state of California) Rust	3.125 - 3.9	Apply at a 7 day interval before disease is expected to appear.	3
Restrictions:				
<ul style="list-style-type: none"> · For ground applications, apply a minimum of 20 gallons of spray volume per acre. · For aerial application, apply a minimum of 5 gallons per acre. · Do not apply more than 9 applications of CY MANCO 4-40 Fungicide per year. · Do not apply more than 32.5 lbs. of product/A per year. · Do not apply to exposed bulb. · Do not allow spray or drift to contact bulbs after lifting from soil. · Restricted Entry Interval (REI): 12 hours. 				
Crop	Diseases	Rate CY MANCO 4-40 Fungicide (lb/acre/app lication)	Specific Use Instructions	Pre- Harvest Interval (PHI)
Potato	Late Blight, Early blight, Brown spot	3	Apply at 7-14 day interval beginning at crop height of 4-6 inches. Use the shorter interval if weather conditions favor disease.	14 days
Restrictions:				
<ul style="list-style-type: none"> · Do not apply within 3 days of harvest in Connecticut, Florida, Maine, Massachusetts, New Hampshire, New York, Ohio, Pennsylvania, Vermont, and Wisconsin. · Do not apply more than 7 applications of CY MANCO 4-40 Fungicide per year. · Do not apply more than 28 lbs. of product/A per year. · For ground applications, apply a minimum of 20 gallons of spray volume per acre. · For aerial application, apply a minimum of 5 gallons per acre · Restricted Entry Interval (REI): 12 hours. 				
Crop	Diseases	Rate CY MANCO 4-40 Fungicide (lb/acre/app lication)	Specific Use Instructions	Pre- Harvest Interval (PHI)
Tomatoes (not for use in the state of California)	Anthracnose Early blight Gray leaf spot Late blight Leaf mold Septoria leaf spot Bacterial speck and spot	1.4 - 1.87 lb/acre west of the Mississippi River 2.8 - 5.4 lb/acre east of the	Apply at 5-7, day intervals, 5 days if disease is present or conditions are favorable for disease development.	3

		Mississippi River	
Restrictions:			
<ul style="list-style-type: none"> · Do not apply more than 6 applications of CY MANCO 4-40 Fungicide per year. · Do not apply more than 21 lbs. of product/A per year <p style="margin-left: 40px;">Restricted Entry Interval (REI): 12 hours.</p>			

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food or feed. Store in original containers and out of the reach of children, preferably in a locked storage area. Do not store near heat or open flame. Handle an open container in a manner as to prevent spillage.

If the container is leaking or material is spilled, carefully sweep up and wash exposed area with detergent and water. In spill or leak incidents, keep unauthorized people away.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Non-refillable container. Do not re-use or re-fill this container. Completely empty bag into application equipment then offer for recycling if available, or dispose of empty bag in a sanitary landfill.

WARRANTY DISCLAIMER

Zenith Crop Sciences, S.A. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ZENITH CROP SCIENCES, S.A. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Unintended consequences may result because of factors such as use of the product contrary to label instructions, which are beyond the control of Zenith Crop Sciences, S.A. or the Seller. Zenith Crop Sciences, S.A. and the Seller shall not be responsible for any risks caused by the incorporation of this product into an end use product by the Buyer or User. Buyer is solely responsible for any risks created by the end use or uses to which Buyer or a User put this product. All of the foregoing risks shall be assumed by Buyer and User, and Buyer and User agree to hold Zenith Crop Sciences, S.A. and Seller harmless for any claims related to such factors.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to one of the following, at Zenith Crop Sciences, S.A. election:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

In no case shall Zenith Crop Sciences, S.A. be liable for consequential, incidental, or special damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Zenith Crop Sciences, S.A. or the Seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.