



# ZIRAM<sup>®</sup> XCEL

## FUNGICIDE

**ACTIVE INGREDIENT:**

Ziram (Zinc dimethyldithiocarbamate) ..... 76.0%

**OTHER INGREDIENTS:** ..... 24.0%

**TOTAL:** ..... 100.0%

Contains 0.76 lbs ai ziram per pound.

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

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
 (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>IF ON SKIN:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR EMERGENCY MEDICAL ASSISTANCE, CALL THE ROCKY MOUNTAIN POISON AND DRUG CENTER at 1-866-673-6671. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.	
<b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage.	

EPA REGISTRATION NO. 70506-173

EPA ESTABLISHMENT NO. 041876-IND-004



NET WEIGHT: \_\_\_\_\_ POUNDS



## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## DANGER

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. MAY BE FATAL IF INHALED. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. Do not breathe dust or spray mist. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of waterproof material.

All handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Goggles, face shield or safety goggles
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter
- Chemical-resistant gloves made of any waterproof material, including, polyethylene or polyvinyl chloride

### User Safety Requirements

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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.

### User Safety Recommendations

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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.

### Engineering Controls

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)(6)].

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target area. Do not contaminate water when disposing of equipment washwater or rinsate.

## PRODUCT INFORMATION

ZIRAM XCEL is effective against many fungal diseases and is non-phytotoxic to labeled crops. It is compatible with most commonly used pesticides and adjuvants. It may be used with systemic fungicides, including TOPSIN® M, for broad-spectrum disease control and can be used in Integrated Pest Management (IPM) programs.

### 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.

### NOTES:

For dilute applications, use ZIRAM XCEL at the specified rate per 100 gallons.

For aerial applications, use ZIRAM XCEL in a minimum of 10 gallons of spray per acre. For concentrate ground applications, use a minimum of 20 gallons of spray per acre.

For both ground and aerial applications, always use sufficient water to provide thorough coverage.

Use the high label rate under severe disease pressure or when conditions promote rapid disease development.

A crop cycle is defined as pre-bloom through postharvest.

### RESTRICTIONS:

Do not apply this product through any type of irrigation system.

Do not graze or feed cover crops from treated orchards.

### 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) of 48 hours.

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, including plants, soil, or water, is:

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

**FRUIT AND NUT TREE CROPS**

Crop	Pounds ZIRAM XCEL		Disease(s)	Application Instructions
	Per 100 Gallons	Per Acre		
Almonds		8	Shot-hole Brown Rot (Blossom and Twig Blight) Leaf Blight Scab Anthracnose	Apply at popcorn, full bloom, petal fall or as needed, but no later than 5 weeks after petal fall. Do not apply more than 32 lbs. (24.3 lbs. a.i.)/A per crop cycle. (see NOTES section for definition of crop cycle).
Apples	1 1/2 <sup>②</sup>	6	Apple Scab Cedar Apple Rust <sup>①</sup> Quince Rust <sup>①</sup> Sooty Blotch <sup>①</sup> Fly Speck <sup>①</sup> Bitter Rot <sup>①</sup> Necrotic Leaf Blotch <sup>①</sup>	Apply from pre-bloom through cover sprays as needed. Do not apply within 14 days of harvest. <b>East of the Rockies:</b> Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 42.4 lbs. (32.2 lbs. a.i.)/A per crop cycle. No more than 7 applications per crop cycle. Aerial application is prohibited. <b>West of the Rockies:</b> Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 24.2 lbs. (18.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Aerial application allowed only as a pre-harvest application.
		6	Bull's-Eye Rot (Pacific Northwest only)	Apply in the first cover spray and in pre-harvest spray before fall rains begin. Do not apply within 14 days of harvest. Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 24.2 lbs. (18.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Aerial application allowed only as a pre-harvest application.
		6	Perennial Canker <sup>①</sup> ( <i>Neofabraea perennans</i> )	Apply pre-bloom and calyx sprays. <b>East of the Rockies:</b> Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 42.4 lbs. (32.2 lbs. a.i.)/A per crop cycle. No more than 7 applications per crop cycle. Aerial application is prohibited. <b>West of the Rockies:</b> Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 24.2 lbs. (18.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Aerial application allowed only as a pre-harvest application.
Filberts		3 - 8	Eastern Filbert Blight (EFB)	Apply at bud break and continue at 2 week intervals until early May. Thorough coverage of all branches is essential. Use the higher rate if disease pressure is high. Do not apply more than 5 applications per crop cycle. Do not apply more than 30 lbs (22.8 lbs. a.i.) per crop cycle. Aerial application is prohibited.
Pears	1 1/2 <sup>②</sup>	6	Fabraea Leaf Spot <sup>①</sup> Pear Scab Quince Rust <sup>①</sup> Sooty Blotch <sup>①</sup> Fly Speck <sup>①</sup> Bitter Rot <sup>①</sup>	Apply from pre-bloom through cover sprays as needed. <b>East of the Rockies:</b> Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 42.4 lbs. (32.2 lbs. a.i.)/A per crop cycle. No more than 7 applications per crop cycle. Aerial application is prohibited. Do not apply within 14 days of harvest. <b>West of the Rockies:</b> Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 24.2 lbs. (18.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Aerial application allowed only as a pre-harvest application. Do not apply within 14 days of harvest.
		6	Bull's-Eye Rot (Pacific Northwest only)	Apply in the first cover spray and in pre-harvest spray before fall rains begin. Do not apply within 14 days of harvest. Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 24.2 lbs. (18.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Aerial application allowed only as a pre-harvest application.
		6	Storage Rot <sup>①</sup> ( <i>Phialophora malorum</i> )	Apply as a pre-harvest spray. Do not apply within 14 days of harvest. <b>East of the Rockies:</b> Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 42.4 lbs. (32.2 lbs. a.i.)/A per crop cycle. No more than 7 applications per crop cycle. Aerial application is prohibited. <b>West of the Rockies:</b> Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 24.2 lbs. (18.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Aerial application allowed only as a pre-harvest application.
Peaches, Nectarines East of the Rockies	1 1/2 - 2 2/3 <sup>③</sup>	4 1/2 - 8	Peach Scab Brown Rot Red Spot Sooty Peach	Apply at pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. Do not apply more than 8 lbs. (6.1 lbs. a.i.)/A per application. Do not apply more than 48.2 lbs. (36.6 lbs. a.i.)/A per crop cycle. No more than 6 applications per crop cycle. Aerial application is prohibited. Do not apply within 14 days of harvest.
	1 1/4 - 2 2/3 <sup>③</sup>	3 3/4 - 8	Peach Leaf Curl	Make dormant applications after leaf drop and/or prior to bud swell. Do not apply more than 8 lbs. (6.1 lbs. a.i.)/A per application. Do not apply more than 48.2 lbs. (36.6 lbs. a.i.)/A per crop cycle. No more than 6 applications per crop cycle. Aerial application is prohibited. Do not apply within 14 days of harvest.
Peaches, Nectarines West of the Rockies	2 <sup>③</sup>	6	Brown Rot Shot-Hole	Apply at pre-bloom through cover sprays or as needed. Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 36.3 lbs. (27.6 lbs. a.i.)/A per crop cycle. No more than 6 applications per crop cycle. Do not apply within 30 days of harvest.
	2 2/3 - 3 1/3 <sup>③</sup>	8 - 10	Peach Leaf Curl	Make dormant applications after leaf drop and/or prior to bud swell. Do not apply more than 10 lbs. (7.6 lbs. a.i.)/A per application. Do not apply more than 60 lbs. (45.6 lbs. a.i.)/A per crop cycle. No more than 6 applications per crop cycle. Do not apply within 30 days of harvest.
Apricots	2 - 2 2/3 <sup>③</sup>	6 - 8	Shot-Hole Brown Rot	Apply at popcorn, full bloom, petal fall, and/or 5 weeks after petal fall, and in cover sprays, as needed. Do not apply more than 8 lbs. (6.1 lbs. a.i.)/A per application. Do not apply more than 32.1 lbs. (24.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Do not apply within 30 days of harvest.

① Not registered for this use in California.      ② Based on dilute sprays of 400 gallons per acre.      ③ Based on dilute sprays of 300 gallons per acre.

**FRUIT AND NUT TREE CROPS (continued)**

Crop	Pounds ZIRAM XCEL		Disease(s)	Application Instructions
	Per 100 Gallons	Per Acre		
Cherries East of the Rockies	1 2/3 - 2 <sup>③</sup>	5 - 6	Brown Rot Leaf Spot Black Knot	Apply at pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 24.2 lbs. (18.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Do not apply within 14 days of harvest. Aerial application is prohibited.
Cherries West of the Rockies, except CA	1 2/3 - 2 <sup>③</sup>	5 - 6	Brown Rot Leaf Spot	Apply at pre-bloom through cover sprays as needed. Do not apply more than 6 lbs. (4.6 lbs. a.i.)/A per application. Do not apply more than 24.2 lbs. (18.4 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Do not apply within 30 days of harvest.
Cherries CA only	1 2/3 <sup>③</sup>	5	Brown Rot Leaf Spot	Do not apply more than 5 lbs. (3.8 lbs. a.i.)/A per application. Do not apply more than 20 lbs. (15.2 lbs. a.i.)/A per crop cycle. No more than 4 applications per crop cycle. Do not apply within 30 days of harvest.
Pecans	2 - 2 2/3 <sup>③</sup>	6 - 8	Pecan Scab Anthracnose	Begin applications when leaves are 1/4-1/2 inches long. Repeat after pollination is complete for up to 5 cover sprays at 3-4 week intervals. Do not apply more than 8 lbs. (6.1 lbs. a.i.)/A per application. Do not apply more than 48.2 lbs. (36.6 lbs. a.i.)/A per crop cycle. No more than 6 applications per crop cycle. Do not apply within 55 days of harvest. Aerial application is prohibited.

① Not registered for this use in California.      ② Based on dilute sprays of 400 gallons per acre.      ③ Based on dilute sprays of 300 gallons per acre.

**ORNAMENTAL CROPS ①**

Crop	Pounds ZIRAM XCEL Per 100 Gallons	Disease(s)	Application Instructions
Asters	1 1/2 - 2	Rust	Begin application in early season and continue at 7-day intervals or as needed until blossoms form.
Carnations, Marigolds, Morning Glory, Snapdragons	1 1/2 - 2	Rust	Apply at 7 to 10-day intervals or as needed throughout growing season.
Carnations, Chrysanthemums, Dahlias, Gladiolus, Snapdragons	1 1/2 - 2	Leaf Spot	Apply at 7 to 10-day intervals or as needed throughout growing season.
Azaleas, Camellias	1 1/2 - 2	Petal Blight	Begin application with first bloom. Repeat at 7 to 10-day intervals or as needed through bloom. Apply as a drench to mulch and litter beneath and around bushes.
Cyclamens, Gardenias	1 1/2 - 2	Botrytis Leaf Spot	Apply as needed throughout the growing season.
Dahlias, Delphinium, Golden Glow, Hollyhocks, Phlox	1 1/2 - 2	Powdery Mildew	Apply at 7-day intervals or as needed throughout growing season.
Roses	1 1/2 - 2	Black Spot Powdery Mildew	Begin application when leaves unfold. Repeat at 7 to 10-day intervals or as needed throughout season.

① Not for use in California.

**ORNAMENTAL TREES ①**

Crop	Pounds ZIRAM XCEL Per 100 Gallons	Disease(s)	Application Instructions
Conifers Pine Seedlings	2	Fusiform Rust	Begin application at time of emergence. Repeat at 3 to 5-day intervals or as needed to mid-June.
Douglas Fir Christmas Trees	2	Needle Rust ( <i>Melampsora</i> )	Make one application in the spring when new shoot growth is 1/2 to 2 inches in length.
Shasta Fir Christmas Trees	2	Needle Rust ( <i>Pucciniastrum</i> )	Make a single application in the spring when new shoot growth is 1/2 to 2 inches in length.

① Not for use in California.

**Note:** Due to the continuous development of new varieties of each of the ornamental plants and trees listed above, it is recommended that prior to the first use on a particular ornamental variety, the grower treat a small sample (6-10) with the product at the labeled dose to determine if there is going to be phytotoxicity, including but not limited to necrosis, leaf burn or stunting.

**SMALL FRUIT AND VEGETABLE CROPS**

Crop	Pounds ZIRAM XCEL Per Acre	Disease(s)	Application Instructions
Blueberries <sup>①</sup>	3	Mummyberry Shoot Blight Phomopsis (Twig Blight, Cane and Stem Canker) Anthracnose Fruit Rot (Ripe Rot) Botrytis (aids in control)	Apply in sufficient water for thorough coverage. Apply at loose bud scale stage and 7 days later. Do not apply later than 3 weeks after full bloom. Aerial application is prohibited.
Grapes East of the Rockies	3 - 4	Black Rot Downy Mildew Phomopsis Cane and Leaf Spot Ripe Rot Botrytis Bunch Rot (aids in control)	Begin applications when shoots are at least one inch long and continue at 7-14 day intervals or as necessary according to the integrated pest management guidelines for the particular growing area. Use shorter intervals under heavy disease pressure. Do not apply more than 28 lbs. per acre per crop cycle. Do not apply later than 21 days to harvest. Aerial application is prohibited.
Grapes West of the Rockies	3 - 4	Black Rot Downy Mildew Phomopsis Cane and Leaf Spot Ripe Rot Botrytis Bunch Rot (aids in control)	Apply when shoots are 1/2 to 1 1/2 inches long and repeat at 7-10 day intervals as needed. Do not apply after bloom. Do not apply within 10 days of harvest.
Tomato <sup>①</sup> (Do not use on cherry tomatoes)	3 - 4	Anthracnose Early Blight Septoria Leaf Spot	Begin applications at first sign of infection and continue at 7-14 day intervals. Use the shorter spray interval under high disease pressure. Do not apply more than 23.7 lbs. (18 lbs. a.i.)/A per crop cycle. Do not apply within 7 days of harvest. Ziram can be mixed with copper fungicides to enhance bacterial disease control. Aerial application is prohibited.

① Not for use in California.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in the original container in a dry area. Keep away from sources of ignition (e.g. sparks and open flame). Close bag when not in use. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal instructions listed below.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**IMPORTANT INFORMATION  
READ BEFORE USING PRODUCT**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. and Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. To the extent consistent with applicable law all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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