

EPA Reg. Number: Date of Issuance:

45728-12

AUG 2 2 2008

U.S. ENVIRONMENTAL PROTECTION AGENCY

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

Terms of Issuance: Unconditional

Name of Pesticide Product: Ziram Granuflo

NOTICE OF PESTICIDE:

Registration XX Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Taminco, Inc.

33350 Riverwood Parkway

Suite 1900

Atlanta, GA 30339

Mailed To: Vincent J. Picirillo

Agent for Taminco, Inc. 21320 Sweet Clover Place

Ashburn, VA 20147

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 reregistered 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.

Based on your response to the Ziram Reregistration Eligibility Document(s), EPA has reregistered the product listed above. Enclosed is a copy of your label stamped "Accepted with comments." This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Signature of Approving Official:

Tony Kish, Product Manager Team 22

Fungicide Branch

Registration Division (7505P)

Date:

AUG 2 2 2008

EPA Form 8570-6

45728-12

- 1. Submit one copy of your final printed label with the changes herein, before you release the product for shipment.
 - On page 3, under "Examples", first line add the words "per acre" after ZIRAM GRANUFLO in the first line.
 - On page 3, in the two charts, add "per acre" after the number of lbs.
 - On page 5, under directions for use for "apples" in the first line, the first line should read as follows: "Apply pre-bloom and calyx sprays. Do not apply within 14 days of harvest. East of the.......do not"
 - On page 8 under grapes West of the Rockies, change "bloon" to "bloom" and change the last line to state "Do not apply within 10 days of harvest".
 - On page 9, the heading should read "ZIRAM GRANUFLO APPLICATION INFORMATION SPECIFIC TO ORNAMENTAL CROPS."
 - On page 10, change the footnote to state "(1) Not for use in California. Do not eat fruit from treated trees."
 - On each of pages 5, 6, 7 and 9, there are four footnotes at the bottom, and on page 8 there is only one. Not each page contains all four footnotes in the text. Either list all four foot notes in one location for the entire label, or on each page, list only the ones that are referenced.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(E). Your release for shipment of the product constitutes acceptance of these conditions.

Enclosure





Ziram Granuf

Fungicide.

ACTIVE INGREDIENT:

Ziram (zinc dimethyl dithiocarbamate)*.....76.0% OTHER INGREDIENTS:.....<u>24.0%</u> **TOTAL 100.0%**

*Zinc expressed as metallic......16.25%

EPA Reg. No. 45728-12

EPA Est. No. 32557-BEL-1

EPA Est. No. 72178-SC-001

KEEP OUT OF REACH OF CHILDREN 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 | DEDOCALA PROTECTIVE EQUIPMENT (DI |
|---------------------------------------|--|---|
| 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 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. | PERSONAL PROTECTIVE EQUIPMENT (PI Some materials that are chemical-resistant to any waterproof material. If you want more op tions for Category A on an EPA chemical-resi chart. |
| IF INHALED | Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. | Pilots applying this product in an enclosed co - Long sleeved shirt and long pants, and - Shoes plus socks. |
| | Call a poison control center or doctor for further treatment advice. | All other handlers must wear: - Long-sleeved shirt and long pants, |
| IF SWALLOWED | Call a 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 do so by a poison control center or doctor. | - Shoes plus socks, - Goggles, face shield or safety glasses, - Chemical-resistant gloves, and - A dust/mist filtering respirator (MSHA/NIOS TC-21C), or a NIOSH approved respirator to the second second second second sec |
| | Do not give anything by mouth to an unconscious person. | See engineering controls for additional require |
| IF ON SKIN OR CLOTHING | 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. | Engineering control statements: When handlers use closed systems, enclosed manner that meets the requirements listed in Standard (WPS) for agricultural pesticides [40] the handler PPE requirements may be reduced. |
| | HOT LINE NUMBER | in the WPS. |
| control centeror involving a Spill, l | container or label with you when calling a poison doctor, or going for treatment. For Emergencies Leak, Fire, Exposure, or Accident, Contact: CHEMTREC D. For product usage information, phone Taminco, Inc | Pilots must use an enclosed cockpit that mee the Worker Protection Standard (WPS) for ag CFR 170.240(d)(6). |
| | 23-3258 from 9:00 AM to 5:00 PM Eastern time. | |
| | NOTE TO PHYSICIAN | User Safety Recommendations: |

See Other Panels for Additional Precautionary Statements.

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.

Possible mucosal damage may contraindicate the use of gastric lavage.

PPE)

to this product are made of ptions, follow the instrucsistant category selection

ockpit must wear:

SH approval number prefix with any N, R, P or HE filter.

rements.

ed cabs, or aircraft in a the Worker Protection O CFR 170.240 (d) (4-6)], ced or modified as specified

ets the requirements listed in gricultural pesticides [40

User Safety Recommendations:

User 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.

GENERAL USE INFORMATION

Ziram Granuflo is a broad spectrum fungicide for the control of certain diseases in fruit and nut crops, and ornamentals. Taminco, Inc.'s recommendations for the use of this product are based upon tests believed to be reliable. Ziram Granuflo is not for residential use. FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES. Read entire label carefully and use only as directed.

Ziram Granuflo 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, such as 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing the product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water when disposing of equipment wash waters.

CHEMIGATION: Do not apply this product through any type of irrigation system

GENERAL PRECAUTIONS AND RESTRICTIONS

Do not apply this product in a way that will contact any person, pet, either directly or through drift.

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 (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, such as plants, soil or water, is:

- Coveralis
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eye wear
- Chemical-resistant headgear for overhead exposure

DIRECTIONS AND RECOMMENDATIONS:

Use recommended rates for concentrate, dilute and aerial applications. For dilute application, use Ziram Granufio® at the recommended rates per 100 gallons. Ground application is preferred, especially when full canopy of foliage exists. ZIRAM GRANUFLO® may be applied as a concentrate in a minimum of 20 gallons or more of spray solution per acre by ground spray equipment or in a minimum of 10 gallons or more per acre by aircraft equipment. Increase spray volume and fungicide rate (according to labeling specifications) as crop growth increases to ensure thorough coverage and adequate protection of the foliage and fruit. Under low disease conditions, minimum label rates per application should be used, however, maximum label rates and shortened spray schedules are recommended for severe or threatening disease conditions.

Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied. Be sure spray equipment is clean before use. If it is contaminated with any material, crop injury or sprayer clogging may result. Calibrate spray equipment before use. Attention should be given to sprayer speed and calibration, wind speed, and tree and vine canopy to ensure adequate spray coverage with ZIRAM GRANUFLO®.

For dilute application, use ZIRAM GRANUFLO® at the recommended rates per 100 gallons. For concentrate ground application, use ZIRAM GRANUFLO® at the recommended rate per acre. The following should be used to determine the equivalent amount of product per acre in ½X, 1X, 2X, 3X, 4X (where X = per 100 gal), etc. spray solutions:

| POUNDS ZIRAM GRANU | FLO® FUNGICIDE PER A | CRE FOR DILUTE AND CONCENT | RATE SPRAYS |
|--------------------|----------------------|----------------------------|---------------|
| POMEFRUIT | (APPLE) | STONE FRUIT (PEACH & NI | ECTARINE) |
| ½X or 50 gal/acre | 6 lbs/acre | ½X or 50 gal/acre | 3.75 lbs/acre |
| 1X or 100 gal/acre | 6 lbs/acre | 1X or 100 gal/acre | 3.75 lbs/acre |
| 2X or 200 gal/acre | 6 lbs/acre | 2X or 200 gal/acre | 3.75 lbs/acre |
| 3X or 300 gal/acre | 6 lbs/acre | 3X or 300 gal/acre | 3.75 lbs/acre |
| 4X or 400 gal/acre | 6 lbs/acre | 4X or 400 gal/acre | 3.75 lbs/acre |

Where ZIRAM GRANUFLO® rate per acre is not available, the following can be used to determine dilute and concentrate sprays per acre use rates based on per 100 gallon volume use rates.

Examples:

1) A vineyard consisting of mature grapevines requires 3 to 4 pounds of ZIRAM GRANUFLO® for adequate black rot, downy mildew, phomopsis cane and leaf spot, ripe rot and botrytis bunch rot control. The following table reflects how the rates are equivalent comparing both dilute and concentrate applications:

| POUNDS ZIRAM GRANUFLO FUNGICIDE DILUTE AND CONCENTRATE SPRAYS BASED ON PER 100 GALLON | | | | |
|---|-----------|----------------------------------|--|--|
| RECOMMENDATION | | | | |
| CROP DILUTE (PER 100 GALLONS) | | CONCENTRATE (PER 20-100 GALLONS) | | |
| Grape (Eastern U.S.) | 3 - 4 lbs | 3 - 4 lbs | | |

2) A blueberry field consisting of mature blueberries requires 3 pounds of ZIRAM GRANUFLO® for adequate mummyberry control. The following table reflects how the rates are equivalent comparing both dilute and concentrate applications:

| POUNDS ZIRAM GRANUFLO FUNGICIDE DILUTE AND CONCENTRATE SPRAYS BASED ON PER 100 GALLON | | | | | |
|---|--------------------------|----------------------------------|--|--|--|
| RECOMMENDATION | | | | | |
| CROP | DILUTE (PER 100 GALLONS) | CONCENTRATE (PER 20-100 GALLONS) | | | |
| Blueberries 3 lbs | | 3 lbs | | | |

These rate recommendations can be used in concentrate, dilute and aerial applications. Ground application is preferred, especially when full canopy or foliage exists.

IMPORTANT: When spraying, thorough be erage is necessary to provide good disease control. Make new dilutions for each spraying. If a spreader/sticker is added to the finished spray mixture, do not use for pre-harvest sprays. Also, it is not recommended that a spreader/sticker be used on fruit that will not be washed following harvest and prior to commercial pack-out. The use of a spreader/sticker for applications to apricots is not recommended for risk of adverse effects to fruit finish.

MIXING INSTRUCTIONS

To mix, fill the spray tank about 2/3 full of water, and with agitator running, slowly sift in the required amount of Ziram Granuflo[®]. Finish filling the tank with water and let mixing continue in the tank until thoroughly mixed. Continue agitation and apply immediately.

Do not graze or feed cover crops from treated orchards.

STORAGE AND DISPOSAL

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

Pesticide Storage

Keep away from fire and sparks.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. Do not put concentrate or dilute material into food or drink containers.

In case of spill: Avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.
For Emergencies Involving a Spill, Leak, Fire, Exposure, or Accident, contact: CHEMTREC at (800) 424-9300. For product usage information, phone Taminco, Inc., toll free at (800) 426-3820 from 9:00 AM to 5:00 PM Eastern time.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter, or commercial clay. Sweep up material and dispose according to Pesticide Disposal. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposa

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 Disposal

Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

TERMS OF SALE OR USE

On purchase of this product, buyer and user agree to the following conditions:

Warranty: Taminco, Inc. makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. To the extent consistent with applicable law, buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

Damages: To the extent consistent with applicable law, buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

Ziram Granuflo® is a Registered Trademark of Taminco N.V., a Belgian corporation.

NET WEIGHT:



Taminco, Inc. 3350 Riverwood Parkway Suite 1900 Atlanta, GA 30339

| FRUIT AND NUT | ZIRAW GRAWOFLO | POUNDSZIRA | AM GRANUFLO® | ATION SPECIFIC TO CROP |
|--|---|--|---|---|
| TREE CROPS | DISEASES | per acre | per 100 gal | DIRECTIONS FOR USE |
| ALMONDS | Brown Rot Blossom Blight and Twig Blight (Moriliniaspp.) Leaf Blight (Seimatosporium lichenicola) Scab (Clacosporium carpophilum) Shot Hole (Corynem Blight) (Stigmina carpophilum) Anthracnose | 8 lbs | 2 2/3 lbs ⁽³⁾ . | Apply pre-bloom through petal fall periods. Do not apply later than 5 weeks after petal fall. Do not apply more than 32 lbs/A per crop cycle. (4) |
| APPLES | Apple Scab (Venturia inaequalis) Cedar Apple Rust ⁽¹⁾ , Quince Rust ⁽¹⁾ (Gymnosporangium spp.) Sooty B otch ⁽¹⁾ (Gloeodes pomigena) Fly Speck ⁽¹⁾ (Schizcthyrium per exiguum) Bitter Rot ⁽¹⁾ (Glomerella cingulata) Necrotic Leaf Blotch | 6 lbs | 1 1/2 lbs ⁽²⁾ | Apply pre-bloom and calyx sprays. Do not apply within 14 days of harvest. East of the Rockles: Do not apply more than 6 lbs. (4.6 lbs. A.I.)/A per application. Do not apply more than 42.4 lbs. (322 lbs. A.I.)/A per crop cycle. No more than 7 applications per crop cycle. Aerial application is prohibited. West of the Rockles: 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 for pre-harvest application only. (4) |
| | Bull's-Eye Rot (Pacific Northwest only) (Pezicula malicorticis) | 6 lbs | 1 1/2 lbs ⁽²⁾ | 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. Aenal application allowed for pre-harvest application only. |
| | Perennial Canker (Neofabraea perennars) | 6 lbs | 1 1/2 lbs ⁽²⁾ | Apply pre-bloom and calyx sprays. East of the Rockles: Do not apply more than 61bs. (4.61bs. A.I.)/A per application. Do not apply more than 42.41bs. (32.21bs. A.I.)/A per crop cycle. No more than 7 applications per crop cycle. Aerial application is prohibited. West of the Rockles: Do not apply more than 61bs. (4.6 bs. A.I.)/A per application. Do not apply more than 24.2 bs. (18.41bs. A.I.)/A per crop cycle. (9 No more than 4 applications per crop cycle. Aerial application allowed for pre-harvest application only. |
| APRICOTS | Brown Rot Bio ssom Blight, Twig Blight and Fruit Rot (Monimia spp.) Shot-Hole (Stigmina carpophia) | 6 to 8 lbs (except CA) 8 lbs (CA only) | 2 to 2 2/3 lbs ⁽³⁾ 2 2/3 lbs. | Apply at popcom, full bloom, pat at 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. (4) No more than 4 applications per crop cycle. Do not apply within 30 days of harvest. |
| CHERRIES East of the Rockles | Brown Rot Blossom Blight, Twig Blight and Frult Rot (Moni'nia spp.) Leaf Spot (Blumeriella jaapii) Black Knot | 5 to 6 lbs | 1 2/3 to 2 lbs ⁽³⁾ | Apply at pre-bloom through over sprays as needed. Under severe disease pressure use the higher rate. Do not apply more than 6 lbs. (4.6 lbs. A.I. yA per application. Do not apply more than 24.2 lbs. (184 lbs A.I. yA per crop cycle. ⁽⁴⁾ No more than 4 applications per crop cycle. Aerial application is prohibited. Do not apply within 14 days of harvest. |
| CHERRIES West of the Rockies, except CA | Brown Rot Blossom Blight, Twig Blight and Fruit Rot (Moniinia spp.) Leaf Spot ⁽¹⁾ (Blumeriellajaapii) | 4 to 6 lbs (except CA) | 1 1/3 to 2 lbs ⁽³⁾ | 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. (4) No more than 4 applications per crop cycle. Do not apply within 14 days of harvest. |
| CHERRIES CAonly | Brown Rot Leaf Spot | 5 | 1 2/3 ⁽³⁾ | Do not apply more than 5 lbs. (3.8 lbs. AJ.)/A per application. Do not apply more than 20 lbs. (15.2 lbs. AJ.)/A per crop cycle. No more than 4 applications per crop cycle. (4) Do not apply within 7 days of harvest. Do not apply within 7 days of harvest. |

⁽¹⁾ Not for use in California.

⁽²⁾ Based on dilute sprays of 400 gallons per acre.
(3) Based on dilute sprays of 300 gallons per acre.
(4) Crop cycle is defined as pre-bloom through post-harvest.

| FRUIT AND NUT | ZINAM CNAMO LO | | AM GRANUFLO [®] | ATION SPECIFIC TO CROP |
|--|---|--------------------------------|---|---|
| TREE CROPS | DISEASES | per acre | per 100 gal | DIRECTIONS FOR USE |
| PEACHES AND NECTARNES East of the Rockles | Brown Rot Blossom Blight, Twig Blight and Fruit Rot (Monitinia spp.) Peach Scab, Red Spot, Sooty Peach | 4 1/2 to 8 lbs | 1 1/2 to 2 2/3 lbs ⁽³⁾ | Apply at pre-bloom through over sprays as needed. Do not apply within 14 days of harvest. 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. |
| | Peach Blight (i.a. Shot Hole) (Stigmina carpophila) | 4 1/2 to 8 lbs | 11/2 to 2 2/3 lbs ⁽³⁾ | Apply at pre-bloom through cover sprays as needed. In addition to spray program, apply 8 lbs/A in the fall before the heavy rains. Do not apply within 14 days of harvest. 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 cyde. No more than 6 applications per crop cyde (4). Aerial application is prohibited. |
| | Peach Leaf Curl (Taphrina deformans) | 3 3/4 to 8 lbs | 1 1/4 to 2 2/3 lbs ⁽³⁾ | Make dormant applications after leaf drop and/or prior to bud swell. Do not apply more than 8 lbs. (6.1 lbs. A L)/A per application. Do not apply more than 48.2 lbs. (36.6 lbs. A L)/A per crop cyde. No more than 6 applications per crop cyde ⁽⁴⁾ . Aerial application is prohibited. Do not apply within 14 days of harvest. |
| PEACHES AND NECTARNES West of the Rockles | Brown Rot Blossom Blight, Twig Blight and Fruit Rot (Moniinia spp.) | 6 lbs | 2 lbs ⁽³⁾ | 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 36.3 lbs. (27.6 lbs. A.I.)/A per crop cycle. No more than 6 applications per crop cycle (4). Do not apply within 30 days of harvest. |
| | Peach Blight (i.e. Shot Hole) (Stigmina carpophila) | 6 lbs | 2 bs ⁽³⁾ | 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 36.3 lbs. (27.6 lbs. A.I.)/A per crop cycle. No more than 6 applications per crop cycle (4). Do not apply within 30 days of harvest. |
| | Peach Leaf Curl (Taphrina deformans) | 8 to 10 lbs 8 lbs (CA only) | 2 2/3 to 3 1/3 lbs ⁽³⁾ 2 2/3 lbs ⁽³⁾ | 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 cyde. No more than 6 applications per crop cyde ⁽⁴⁾ . |

Not for use in California.
 Based on dilute sprays of 400 gallons per acre.
 Based on dilute sprays of 300 gallons per acre.
 Crop cycle is defined as pre-bloom through post-harvest.

| FRUIT AND NUT | | POUNDS ZI | | |
|---------------|---|------------|-----------------------------------|---|
| | DISEASES | per acre | per 100 gal | DIRECTIONS FOR USE |
| PEARS | Pear Scab (Venturia pyrina) Quince Rust ⁽¹⁾ (Gymnosporangium spp.) Sooty B lotch ⁽¹⁾ (Gloeodes, pomigena) Fly Speck ⁽¹⁾ (Schizothyrium pomi) Bitter Rot ⁽¹⁾ (Glomerella cingulata) Fabraea Leaf Spot ⁽¹⁾ (Diplocarpon mespili) | 6 lbs | 1 1/2 lbs ^{/2} | Apply from pre-bioom through cover sprays as needed. Aerial application allowed only as a pre-harvest application. East of the Rockles: The maximum allowable rate per application is 6 lbs. (4.6 lbs. A.1.)/A. The maximum allowable rate per crop cycle is 42.4 lbs. (32.2 lbs. A.1.)/A. The maximum number of applications per crop cycle is 7. ⁽⁴⁾ Do not apply within 14 days of harvest. West of the Rockles: The maximum allowable rate per application 6 lbs. (4.6 lbs. A.1.)/A. The maximum allowable rate per crop cycle is 24.2 lbs. (18.4 lbs. A.1.)/A. The maximum number of applications per crop cycle is 4. ⁽⁴⁾ Do not apply within 5 days of harvest. |
| | Bull's-Eye Rot (Pacific Northwest only) (Pezicula malicorticis) | 6lbs | 1 1/2 ibs ⁽²⁾ | Apply in the first cover spray and in pre-harvest spray before fall rains begin. Do not apply within 5 days of harvest. The maximum allowable rate per application 6 lbs. (4.6 lbs. A.I.)/A. The maximum number of applications per crop cycle is 24.2 lbs. (18.4 lbs. A.I.)/A. The maximum number of applications per crop cycle is 4. (4) Aerial application allowed only as a pre-harvest application. |
| | Storage Rot (Phialophora malorum) | 6 lbs | 1 1/2 lbs ⁽²⁾ | Apply as a pre-harvest spray. Aerial application allowed only as a pre-harvest application, East of the Rockies: The maximum allowable rate per application is 6 lbs. (4.6 lbs. A.I.)/A. The maximum allowable rate per crop cycle is 42.4 lbs. (32.2 lbs. A.I.)/A. The maximum number of applications per crop cycle is 7.49 Do not apply within 14 days of harvest. West of the Rockies: The maximum allowable rate per application 6 lbs. (4.6 lbs. A.I.)/A. The maximum allowable rate per crop cycle is 24.2 lbs. (18.4 lbs. A.I.)/A. The maximum number of applications per crop cycle is 4.69 Do not apply within 5 days of harvest. |
| PECANS | Pecan Scab (Cladosporium effusum) Anthracnose (Glomerella dingulata) | 6 to 8 lbs | 1 1/2 to 2 2/3 lbs ⁽⁸⁾ | Begin applications when leaves are ½ to ½ 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. ⁽⁴⁾ No more than 6 applications per crop cycle. Do not apply within 55 days of harvest. Aerial application is prohibited. |

 ⁽¹⁾ Not for use in California.
 (2) Based on dilute sprays of 400 gallons per acre.
 (3) Based on dilute sprays of 300 gallons per acre.
 (4) Crop cycle is defined as pre-bloom through post-harvest.

| AND VEGETABLE CROPS | DISEASES | POUNDS ZIRAM per acre | per 100 gal | DIRECTIONS FOR USE |
|-----------------------------|--|-----------------------|-------------|--|
| Blackberries ⁽¹⁾ | Evergreen blackberry canker | 3 lbs | 3 lbs | Apply in sufficient water for thorough coverage. Make or application between mid-June and early July. Aerial appl prohibited. |
| Blueberries ^{ft)} | Mummyberry (Monifinia vaccinii-corymbosii) Phomopsis (Twig Blight, Cane and Stem Canker) Anthracnose Fruit Rot (Ripe Rot) Botrytis (aids in control) | 3 bs | 3 lbs | 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 prohibited. |
| Grape | Black Rot (Guigna dia bidwellii) Downy Mildew (Plasmopara viticola) | 3 to 4 lbs | 3 to 4 lbs | Begin applications when shoots are at least 1 inch long continue at 7-14 day intervals or as necessary according |
| East of the | Phomopsis Cane and Leaf Spot | . • | | the integrated pest management guidelines for the partic growing area. Use shorter intervals under heavy disease |
| Rockes | (Phomopsis viticola) | | | pressure. |
| | Ripe Rot (Glomerella cingulata) | | | Do not apply more than 28 lbs per acreper cop cycle. Do not apply later than 21 days to harvest. Aerial applic prohibited. |
| | Botrytis Bunch Rot (Botrytis cinerea) | | | |
| | (aides in control). | | | • |
| Grape | Black Rot (Guignardia bidwellii) Downy Mildew (Plasmopara viticola) | 3 to 4 lbs | 3 to 4 lbs | Apply when shoots are ½ to 1½ inches long and repeat at 7-10 day intervals as needed. Do not apply after bloc apply later than 10 days to harvest. |
| West of the | Phomopsis Cane and Leaf Spot | | | |
| Rockies | (Phomoesis viticola) | | | · |
| rio dires | Ripe Rot (Glomerella cingulata) | | | |
| | Botrytis Bunch Rot (Botrytis cinerea) | • | | |
| | (aides in control) | | | |
| Tomato ⁽¹⁾ | Anthracnose (Colletotrichum | 3 to 4 lbs | 3 to 41bs | Begin applications at first sign of infection and continue at 7-14 day intervals. Use the shorter spray interval |
| (Do not use on | coccodes) | | | |
| Cherry tomatoes) | Early Blight (Alternaria solani) Septoria Leaf Sp ot (Septoria lycopersid) | | | under high disease pressure. Do not apply more than 23.7lbs (18.0 lbs. A.I.)/A per crop cycle. Do not apply wi days of harvest. Ziram can be mixed with copper fungicienhance bacterial disease control. Aerial application is p |

⁽¹⁾ Not for use in California.

| ORNAMENTAL CROPS(1) | DISEASES | POUNDS ZIR | AM GRANUFLO per 100 gai | DIRECTIONS FOR USE |
|--|--|------------|----------------------------|---|
| Asters | Rust (Puccinia spp.) | 8 lbs | 1 1/2 to 2 lbs | Begin application early in the growing season and continue every 7 days as needed until blossoms form. |
| Azaleas Cam ellias | Petal Blight (Pestalota spp.) | 8 lbs | 1 1/2 to 2 lbs | Begin application with first bloom. Apply at 3 to 5 day intervals as a drench to mulch and litter beneath and around bushes through bloom period. |
| C arnations C hrysanthem ums Marigolds | Rust (Pucánia spp.) | 8 lbs | 1 2/3 to 2 lbs | Apply at 7 to 10 day intervals as needed throughout the growing season. |
| Moming Glory Snapdragons | | | | |
| Carnations Chrysanthemums | Leaf Spot (Alternaria spp.) | 8 lbs | 1 2/3 to 2 lbs | Apply at 7 day intervals as needed throughout the growing season. |
| Dahlas Gladiolus | | | | |
| Snapdragons | | | | i |
| Cyclamens Gardenias | Botrytis Blight (Botrytis spp.) Leaf Spot (Phyllostica spp.) | 8 lbs | 1 1/2 to 2 lbs | Apply at 7 to 10 day intervals as needed throughout the growing season. |
| Dah las Dalph inium Golden Glow | Powdery Mildew (Erysiphe cichoracearum) | 8 lbs | 1 2/3 to 2 lbs | Apply at 7 day intervals as needed throughout the growing season. |
| Hollyhocks Phlox | | | | · |
| Lilles Peonies Poinsettias Tulips | Botrytis Blight (Botrytis spp.) | 8 lbs | 1 1/2 to 2 lbs | Apply at 7 to 10 day intervals as needed throughout the growing season. |
| Roses | Black Spot (Diplocarpon rosæ) Powdery Mildew (Sphaerotheca spp.) | 8 fbs . | 1 23 to 2 lbs | Begin application when leaves unfold. Apply at 7 to 10 day intervals as needed throughout the growing season. |

Not for use in California.
 Based on dilute sprays of 400 gallons per acre.
 Based on dilute sprays of 300 gallons per acre.
 Crop cycle is defined as pre-bloom through post-harvest.

| ORNAMEN TAL | | POUNDSZIR | AM GRANUFLO | |
|--|--|-----------|-------------|---|
| TREES AND FRUIT(1) | DISEASES | per acre | per 100 gal | DIRECTIONS FOR USE |
| Conifers Pine Seedlings | Fusiform Rust | 8 lbs | 2 lbs | Apply at 3 to 5 day intervals from plant emergence to mid-June. |
| Douglas Fir Christmas Trees | Melampsora Needle Rust | 8 lbs | 2 lbs | Make one application in the spring when new shoot growth is 1/2 to 2 inches in length. |
| Shasta Fir Christmas Trees | Puœineastrum Needle Rust | 8 lbs | 2 lbs | Make a single application in the spring when new shoot growth is 1/2 to 2 inches in length. |
| Apple Pear | Anthracnose (Pezicula malicorticis) European (Nectria) Canker Fusiform Rust | 8 bs | 2 to 3 lbs | Apply as a thorough coverage spray in the fall and domant periods. DO NOT USE FRUIT FOR HUMAN CONSUMPTION. |
| Flowering Crab Apple Oregon Crab Apple Quince | Anthracnose (Pezicula malicorticis) | 8 lbs | 2 to 3 lbs | Apply as a thorough coverage spray in the fall and domant periods. DO NOT USE FRUIT FOR HUMAN CONSUMPTION. |
| Sweet Cherry Wild Cherry Choke Cherry Cherry laurel Flowering Plum (non-edible only) | Witches' Broom, Leaf Curl, Plum Pockets (Taphrina spp.) | . 8 lbs | 2 to 3 lbs | Apply as a thorough coverage spray in the dormant period prior to bud swell. DO NOT USE FRUIT FOR HUMAN CONSUMPTION. |
| Peach Apricot | Twig Blight (Moniinia spp.) Leaf Curl (Taphrina deformans) | 8 lbs | 2 to 3 lbs | Apply as a thorough coverage spray in the dormant period prior to bud swell. DO NOT USE FRUIT FOR HUMAN CONSUMPTION. |
| N ectarine | Leaf Curl (Taphrina deformans) Shot Hole (Stigmina carpophila) | 8 lbs | 2 to 3 lbs | Apply as a thorough coverage spray in the dormant period prior to bud swell. DO NOT USE FRUIT FOR HUMAN CONSUMPTION. |

⁽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 plants) with the product at recommended dose to determine if there is going to be phytotoxicity, including but not limited to necrosis, leaf burn or stunting.