

# Ziram Granuflo™

GROUP

M3

FUNGICIDE

## ACTIVE INGREDIENT:

Ziram (zinc dimethyldithiocarbamate) ..... 76.0%

OTHER INGREDIENTS:..... 24.0%

TOTAL 100.0%

EPA Reg. No. 45728-12  
EPA Est. No. 32557-BEL-1

## KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

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.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</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 by 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 do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING</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>

### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Emergencies involving a Spill, Leak, Fire, Exposure, or Accident, Contact: CHEMTREC at (800) 424-9300. For product usage information, phone Taminco US LLC, toll free at (423) 229-2000 from 9:00 AM to 5:00 PM Eastern time.

### NOTE TO PHYSICIAN

Possible mucosal damage may contraindicate the use of gastric lavage.

### SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

#### 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)

Pilots applying this product in an enclosed cockpit must wear:

- Long sleeved shirt and long pants, and
- Shoes plus socks.

All other handlers must wear:

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

##### 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.

#### USER SAFETY RECOMMENDATIONS:

- User should wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- User 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 Control Statements:

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 USE INFORMATION

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 for broad-spectrum disease control and can be used in Integrated Pest Management (IPM) programs. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. No claim of compatibility with other pesticides is implied.

#### 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.

#### RESTRICTIONS

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

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

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 (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:

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

#### Note:

For dilute applications, use Ziram Granuflo™ at the specified rate per 100 gallons. For aerial applications, use Ziram Granuflo™ 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 enough 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.

#### 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.

**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 (20 lb. bags):** Non-refillable 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.

Ziram Granuflo™ is a Registered Trademark of Taminco BV, a Belgian corporation.

Manufactured by:  
Taminco US LLC  
a subsidiary of Eastman Chemical Company  
200 S Wilcox Dr.  
Kingsport TN 37660-5147

NET WEIGHT: 20 lb (9.07kg)

## Ziram Granuflo™ Application Information Specific to Fruit and Nut Crops

CROP	DISEASES	MAXIMUM POUNDS OF ZIRAM GRANUFLO™ PER ACRE	DIRECTIONS FOR USE
ALMONDS	<b>Brown Rot, Blossom Blight and Twig Blight</b> ( <i>Monilinia laxa</i> , <i>M. fructicola</i> ), <b>Leaf Blight</b> ( <i>Seimatosporium lichenicola</i> ), <b>Scab</b> ( <i>Cladosporium carpophilum</i> ), <b>Shot Hole</b> ( <i>Wilsonomyces carpophilum</i> ), <b>Anthraco</b> ( <i>Colletotrichum spp.</i> )	8 lbs	Apply at popcorn, full bloom, petal fall periods, or as needed. <b>Restrictions: DO NOT</b> apply later than 5 weeks after petal fall. <b>DO NOT</b> apply more than 8 lbs. of product per acre or 6.1 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 32 lbs. of product per acre or 24.3 lbs. of a.i. per acre per year. No more than 4 applications per year. Minimum Retreatment Interval 3 days.
APPLES	<b>Apple Scab</b> ( <i>Venturia inaequalis</i> ), <b>Cedar Apple Rust</b> <sup>(1)</sup> ( <i>Cymnosporangium spp.</i> ), <b>Quince Rust</b> <sup>(1)</sup> ( <i>Cymnosporangium spp.</i> ), <b>Sooty Blotch</b> <sup>(1)</sup> ( <i>Gloeodes pomigena</i> ), <b>Fly Speck</b> <sup>(1)</sup> ( <i>Schizothryum perexiguum</i> ), <b>Bitter Rot</b> <sup>(1)</sup> ( <i>Glomerella cingulata</i> ), <b>Necrotic Leaf Blotch</b> <sup>(1)</sup>	6 lbs	Apply from pre-bloom through cover spray as needed. <b>Restrictions: DO NOT</b> apply within 14 days of harvest. <b>East of the Rockies: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 42.4 lbs. of product per acre or 32.3 lbs. of a.i. per acre per year. No more than 7 applications per year. Aerial application is prohibited. Minimum Retreatment Interval 7 days. <b>West of the Rockies: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 24.2 lbs. of product per acre or 18.4 lbs. of a.i. per acre per year. No more than 4 applications per year. Aerial application allowed for pre-harvest application only. Minimum Retreatment Interval 10 days.
	<b>Bull's-Eye Rot</b> (Pacific Northwest only) ( <i>Neofabraea malicorticis</i> )	6 lbs	Apply in the first cover spray and in pre-harvest spray before fall rains begin. <b>Restrictions: DO NOT</b> apply within 14 days of harvest. <b>DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 24.2 lbs. of product per acre or 18.4 lbs. a.i. per acre per year. No more than 4 applications per year. Aerial application allowed for pre-harvest application only. Minimum Retreatment Interval 10 days.
	<b>Perennial Canker</b> <sup>(1)</sup> ( <i>Neofabraea perennans</i> )	6 lbs	Apply pre-bloom and calyx sprays. <b>Restrictions: East of the Rockies: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 42.4 lbs. of product per acre or 32.2 lbs. of a.i. per acre per year. No more than 7 applications per year. Aerial application is prohibited. Minimum Retreatment Interval 7 days. <b>West of the Rockies: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 24.2 lbs. of product per acre or 18.4 lbs. of a.i. per acre per year. No more than 4 applications per year. Aerial application allowed for pre-harvest application only. Minimum Retreatment Interval 10 days.
APRICOTS	<b>Brown Rot, Blossom Blight, Twig Blight, and Fruit Rot</b> ( <i>Monilinia fructicola</i> , <i>M. laxa</i> ) <b>Shot-Hole</b> ( <i>Wilsonomyces carpophila</i> )	6 – 8 lbs (except CA) 8 lbs (CA only)	Apply at popcorn, full bloom, petal fall, and/or 5 weeks after petal fall, and in cover sprays, as needed. <b>Restrictions: DO NOT</b> apply more than 8 lbs. of product per acre or 6.1 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 32.1 lbs. of product per acre or 24.4 lbs. a.i. per acre per year. No more than 4 applications per year. <b>DO NOT</b> apply within 30 days of harvest. Minimum Retreatment Interval 7 days.
CHERRIES East of the Rockies	<b>Brown Rot, Blossom Blight, Twig Blight, and Fruit Rot</b> ( <i>Monilinia fructicola</i> , <i>M. laxa</i> ) <b>Leaf Spot</b> ( <i>Blumeriella jaapii</i> ), <b>Black Knot</b> ( <i>Dibotryon morbosum</i> )	5 – 6 lbs	Apply at pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. <b>Restrictions: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 24.2 lbs. of product per acre or 18.4 lbs. a.i. per acre per year. No more than 4 applications per year. Aerial application is prohibited. <b>DO NOT</b> apply within 14 days of harvest. Minimum Retreatment Interval 7 days.
CHERRIES West of the Rockies, except CA	<b>Brown Rot, Blossom Blight, Twig Blight, and Fruit Rot</b> <sup>(1)</sup> ( <i>Monilinia fructicola</i> , <i>M. laxa</i> ) <b>Leaf Spot</b> <sup>(1)</sup> ( <i>Blumeriella jaapii</i> )	5 – 6 lbs	Apply at pre-bloom through cover sprays as needed. <b>Restrictions: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 24.2 lbs. of product per acre or 18.4 lbs. of a.i. per acre per year. No more than 4 applications per year. <b>DO NOT</b> apply within 30 days of harvest. Minimum Retreatment Interval 5 days.
CHERRIES CA only	<b>Brown Rot</b> ( <i>Monilinia fructicola</i> , <i>M. laxa</i> ) <b>Leaf Spot</b> ( <i>Blumeriella jaapii</i> )	5 lbs	<b>Restrictions: DO NOT</b> apply more than 5 lbs. of product per acre or 3.8 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 20 lbs. of product per acre or 15.2 lbs. a.i. per acre per year. No more than 4 applications per year. <b>DO NOT</b> apply within 30 days of harvest. Minimum Retreatment Interval 5 days.
FILBERTS	<b>Eastern Filbert Blight (EFB)</b> ( <i>Anisogramma anomala</i> )	3 – 8 lbs.	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. <b>Restrictions: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 30 lbs. of product per acre or 22.8 lbs. of a.i. per year. No more than 5 applications per year. Minimum Retreatment Interval 14 days.
PEACHES AND NECTARINES East of the Rockies	<b>Brown Rot, Blossom Blight, Twig Blight, and Fruit Rot</b> ( <i>Monilinia fructicola</i> , <i>M. laxa</i> ), <b>Peach Scab</b> ( <i>Cladosporium carpophilum</i> ), <b>Red Spot</b> ( <i>Xanthomonas campestris pv. Pruni</i> ), <b>Stone-Hole</b> ( <i>Wilsonomyces carpophilus</i> ) <b>Sooty Peach</b> ( <i>Fumago sp.</i> , <i>Capnodium sp.</i> , <i>Scorias sp.</i> )	4 ½ – 8 lbs	Apply at pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. <b>Restrictions: DO NOT</b> apply more than 8 lbs. of product per acre or 6.1 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 48.2 lbs. of product per acre or 36.6 lbs. a.i. per acre per year. No more than 6 applications per year. Aerial application is prohibited. <b>DO NOT</b> apply within 14 days of harvest. Minimum Retreatment Interval 7 days.
	<b>Peach Leaf Curl</b> ( <i>Taphrina deformans</i> )	3 ¾ – 8 lbs	Make dormant applications after leaf drop and/or prior to bud swell. <b>Restrictions: DO NOT</b> apply more than 8 lbs. of product per acre or 6.1 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 48.2 lbs. of product per acre or 36.6 lbs. a.i. per acre per year. No more than 6 applications per year. Aerial application is prohibited. <b>DO NOT</b> apply within 14 days of harvest. Minimum Retreatment Interval 7 days.
PEACHES AND NECTARINES West of the Rockies	<b>Brown Rot, Blossom Blight, Twig Blight, and Fruit Rot</b> ( <i>Monilinia fructicola</i> , <i>M. laxa</i> ) <b>Stone-Hole</b> ( <i>Wilsonomyces carpophilus</i> )	6 lbs	Apply at pre-bloom through cover sprays as needed. <b>Restrictions: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 36.3 lbs. of product per acre or 27.6 lbs. a.i. per acre per year. No more than 6 applications per year. <b>DO NOT</b> apply within 30 days of harvest. Minimum Retreatment Interval 3 days.
	<b>Peach Leaf Curl</b> ( <i>Taphrina deformans</i> )	8 – 10 lbs 8 lbs (CA only)	Make dormant applications after leaf drop and/or prior to bud swell. <b>Restrictions: DO NOT</b> apply more than 8 lbs. of product per acre or 6.1 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 48.2 lbs. of product per acre or 36.6 lbs. a.i. per acre per year. No more than 6 applications per year. Minimum Retreatment Interval 7 days.
PEARS	<b>Pear Scab</b> ( <i>Venturia pyrina</i> ), <b>Quince Rust</b> <sup>(1)</sup> ( <i>Cymnosporangium spp.</i> ) <b>Sooty Blotch</b> <sup>(1)</sup> ( <i>Gloeodes pomigena</i> ) <b>Fly Speck</b> <sup>(1)</sup> ( <i>Schizothryum pomi</i> ) <b>Bitter Rot</b> <sup>(1)</sup> ( <i>Glomerella cingulata</i> ) <b>Fabraea Leaf Spot</b> <sup>(1)</sup> ( <i>Diplocarpon mespili</i> )	6 lbs	Apply from pre-bloom through cover sprays as needed. <b>Restrictions: DO NOT</b> apply within 14 days of harvest. <b>East of the Rockies: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 42.4 lbs. of product per acre or 32.2 lbs. a.i. per acre per year. No more than 7 applications per year. Aerial application is prohibited. Minimum Retreatment Interval 7 days. <b>West of the Rockies: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 24.2 lbs. of product per acre or 18.4 lbs. a.i. per acre per year. No more than 4 applications per year. Aerial application allowed for pre-harvest application only. Minimum Retreatment Interval 10 days.
	<b>Bull's Eye Rot</b> (Pacific Northwest only) ( <i>Neofabraea malicorticis</i> )	6 lbs	Apply in the first cover spray and in pre-harvest spray before fall rains begin. <b>Restrictions: DO NOT</b> apply within 14 days of harvest. <b>DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 24.2 lbs. of product per acre or 18.4 lbs. a.i. per acre per year. No more than 4 applications per year. Aerial application allowed only as a pre-harvest application. Minimum Retreatment Interval 10 days.
	<b>Storage Rot</b> <sup>(1)</sup> ( <i>malorum</i> )	6 lbs	Apply as a pre-harvest spray. <b>Restrictions: DO NOT</b> apply within 14 days of harvest. <b>East of the Rockies: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 42.4 lbs. of product per acre or 32.2 lbs. a.i. per acre per year. No more than 7 applications per year. Aerial application is prohibited. Minimum Retreatment Interval 7 days. <b>West of the Rockies: DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 24.2 lbs. of product per acre or 18.4 lbs. a.i. per acre per year. No more than 4 applications per year. Aerial application allowed for pre-harvest application only. Minimum Retreatment Interval 10 days.
PECANS	<b>Pecan Scab</b> ( <i>Cladosporium effusum</i> ) <b>Anthraco</b> ( <i>Glomerella cingulata</i> )	6 – 8 lbs	Begin applications when leaves are ¼ to ½ inches long. Repeat after pollination is complete for up to 5 cover sprays at 3-4 week intervals. <b>Restrictions: DO NOT</b> apply more than 8 lbs. of product per acre or 6.1 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 48.2 lbs. of product per acre or 36.6 lbs. a.i. per acre per year. No more than 6 applications per year. <b>DO NOT</b> apply within 55 days of harvest. Aerial application is prohibited. Minimum Retreatment Interval 14 days.

<sup>(1)</sup> Not for use in California

## Ziram Granuflo™ Application Information Specific to Small Fruit and Vegetable Crops

CROP	DISEASES	MAXIMUM POUNDS OF ZIRAM GRANUFLO™ PER ACRE	DIRECTIONS FOR USE
Blueberries <sup>(1)</sup>	<b>Mummyberry</b> ( <i>Monilinia vaccinii-corymbosi</i> ), <b>Phomopsis Twig Blight, Cane and Stem Canker</b> ( <i>Phomopsis vaccinii</i> ), <b>Anthraco</b> ( <i>Colletotrichum gloeosporioides</i> ), <b>Alternaria Fruit Rot</b> ( <i>Alternaria spp.</i> ), <b>Botrytis</b> (aids in control)* * use the higher rate (4 lbs. per acre)	3 lbs	Apply in sufficient water for thorough coverage. Apply at loose bud scale stage and 7 days later. <b>DO NOT</b> apply later than 3 weeks after full bloom. <b>Restrictions: DO NOT</b> apply more than 3 lbs. of product per acre or 2.3 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 6 lbs. of product per acre or 4.6 lbs. a.i. per acre per year. No more than 2 applications per year. <b>DO NOT</b> apply within 30 days of harvest. Aerial application is prohibited. Minimum Retreatment Interval 7 days.
GRAPES East of the Rockies	<b>Black Rot</b> ( <i>Guignardia bidwellii</i> ), <b>Downy Mildew</b> ( <i>Plasmopara viticola</i> ) <b>Phomopsis Cane and Leaf Spot</b> ( <i>Phomopsis viticola</i> ), <b>Ripe Rot</b> ( <i>Glomerella cingulata</i> ), <b>Botrytis Bunch Rot</b> ( <i>Botrytis cinerea</i> ) (aides in control)	3 to 4 lbs	Begin applications when shoots are at least 1 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. <b>Restrictions: DO NOT</b> apply more than 4 lbs. of product per acre or 3 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 27.6 lbs. of product per acre or 21 lbs. of a.i. per acre per year. No more than 7 applications per year. <b>DO NOT</b> apply later than 21 days to harvest. Aerial application is prohibited. Minimum Retreatment Interval 7 days.
GRAPES West of the Rockies	<b>Black Rot</b> ( <i>Guignardia bidwellii</i> ), <b>Downy Mildew</b> ( <i>Plasmopara viticola</i> ) <b>Phomopsis Cane and Leaf Spot</b> ( <i>Phomopsis viticola</i> ), <b>Botrytis Bunch Rot</b> ( <i>Botrytis cinerea</i> ) (aides in control)	3 – 4 lbs	Apply when shoots are ½ to 1 ½ inches long and repeat at 7-10 day intervals as needed. <b>DO NOT</b> apply after bloom. <b>DO NOT</b> apply within 10 days of harvest.
Tomatoes <sup>(1)</sup> (DO NOT use on Cherry tomatoes)	<b>Anthraco</b> ( <i>Colletotrichum coccodes</i> ) <b>Early Blight</b> ( <i>Alternaria solani</i> ) <b>Septoria Leaf Spot</b> ( <i>Septoria lycopersici</i> )	3 – 4 lbs	Begin applications at first sign of infection and continue at 7-14 day intervals. Use the shorter spray interval under high disease pressure. <b>Restrictions: DO NOT</b> apply more than 4 lbs. of product per acre or 3 lbs. a.i. per acre per application. <b>DO NOT</b> apply more than 23.7 lbs. of product per acre or 18.0 lbs. a.i. per acre per year. No more than 6 applications per year. <b>DO NOT</b> apply within 7 days of harvest. Ziram can be mixed with copper fungicides to enhance bacterial disease control. Aerial application is prohibited. Minimum Retreatment Interval 7 days.

<sup>(1)</sup> Not for use in California

## Ziram Granuflo™ Application Information Specific to Ornamental Crops

CROP	DISEASES	POUNDS OF ZIRAM GRANUFLO™ PER 100 GALLON OF SPRAY SOLUTION	DIRECTIONS FOR USE
Asters	Rust ( <i>Puccinia spp.</i> )	1 ½ to 2 lbs	Begin application early in the growing season and continue every 7 days as needed until blossoms form.
Azaleas Camellias	Petal Blight ( <i>Pestalotia spp.</i> )	1 ½ to 2 lbs	Begin application with first bloom. Apply at 7 to 10 day intervals or as needed through bloom. Apply as a drench to mulch and litter beneath and around bushes.
Carnations Chrysanthemums Marigolds Morning Glory Snapdragons	Rust ( <i>Puccinia spp.</i> )	1 2/3 to 2 lbs	Apply at 7 to 10 days intervals as needed throughout the growing season.
Carnations Chrysanthemums Dahlias Gladiolus Snapdragons	Leaf Spot ( <i>Alternaria spp.</i> )	1 2/3 to 2 lbs	Apply at 7 to 10 day intervals as needed throughout the growing season.
Cyclamens Gardenias	Botrytis Blight ( <i>Botrytis spp.</i> ) Leaf Spot ( <i>Phyllostica spp.</i> )	1 ½ to 2 lbs	Apply at 7 to 10 day intervals as needed throughout the growing season.
Dahlias Delphinium Golden Glow Hollyhocks Phlox	Powdery Mildew ( <i>Erysiphe cichoracearum</i> )	1 2/3 to 2 lbs	Apply at 7 day intervals as needed throughout the growing season.
Lilies Peonies Poinsettias Tulips	Botrytis Blight ( <i>Botrytis spp.</i> )	1 ½ to 2 lbs	Apply at 7 to 10 day intervals as needed throughout the growing season.
Roses	Black Spot ( <i>Diplocarpon rosae</i> ), Powdery Mildew ( <i>Sphaerotheca spp.</i> )	1 2/3 to 2 lbs	Begin application when leaves unfold. Apply at 7 to 10 day intervals as needed throughout the growing season.

## Ziram Granuflo™ Application Information Specific to Ornamental Trees and Fruits Crop

CROP <sup>(1)</sup>	DISEASES	POUNDS OF ZIRAM GRANUFLO™ PER 100 GALLON OF SPRAY SOLUTION	DIRECTIONS FOR USE
Conifers Pine Seedlings	Fusiform Rust ( <i>Cronartium quercuum</i> )	2 lbs.	Apply at 3 to 5 day intervals from plant emergence to mid-June.
Douglas Fir Christmas Trees	Melampsora Needle Rust ( <i>Melampsora occidentalis</i> )	2 lbs.	Make a single application in the Spring when new shoot growth is ½ to 2 inches in length.
Shasta Fir Christmas Trees	Puccineastrum Needle Rust ( <i>Pucciniastrum goeppertianum</i> )	2 lbs.	Make a single application in the Spring when new shoot growth is ½ to 2 inches in length.
Apple Pear	Anthracnose ( <i>Neofabraea malicorticis</i> ) European Canker ( <i>Nectria</i> ), Fusiform Rust	2 to 3 lbs.	Apply as a thorough coverage spray in the Fall and dormant periods. <b>DO NOT USE FRUIT FOR HUMAN CONSUMPTION.</b>
Flowering Crab Apple Oregon Crab Apple Quince	Anthracnose ( <i>Neofabraea malicorticis</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the Fall and dormant periods. <b>DO NOT USE FRUIT FOR HUMAN CONSUMPTION.</b>
Sweet Cherry Wild Cherry Choke Cherry Cherry Laurel Flowering Plum (non-edible only)	Witches' Broom, Leaf Curl, Plum Pockets ( <i>Taphrina spp.</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the dormant period prior to bud swell. <b>DO NOT USE FRUIT FOR HUMAN CONSUMPTION.</b>
Peach Apricot	Twig Blight ( <i>Monilinia spp.</i> ) Leaf Curl ( <i>Taphrina deformans</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the dormant period prior to bud swell. <b>DO NOT USE FRUIT FOR HUMAN CONSUMPTION.</b>
Nectarine	Leaf Curl ( <i>Taphrina deformans</i> ), Shot Hole ( <i>Wilsonomyces carpophila</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the dormant period prior to bud swell. <b>DO NOT USE FRUIT FOR HUMAN CONSUMPTION.</b>
American Hornbeam	Leaf Blister ( <i>Taphrina australis</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the dormant period prior to bud swell.
Elm Birch Maple	Leaf Blister ( <i>Taphrina spp.</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the dormant period prior to bud swell.
California Buckeye	Yellow Leaf Blister ( <i>Taphrina aesculi</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the dormant period prior to bud swell.
Oak	Leaf Blister ( <i>Taphrina caerulescens</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the dormant period prior to bud swell.
Alder	Leaf Curl, Catkin Hypertrophy ( <i>Taphrina spp.</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the dormant period prior to bud swell.
Poplar	Yellow Leaf Blister ( <i>Taphrina populina</i> ), Shoot Blight ( <i>Venturia populina</i> )	2 to 3 lbs.	Apply as a thorough coverage spray in the dormant period prior to bud swell.

<sup>(1)</sup> Not for use in California. **DO NOT** eat fruit from treated trees.

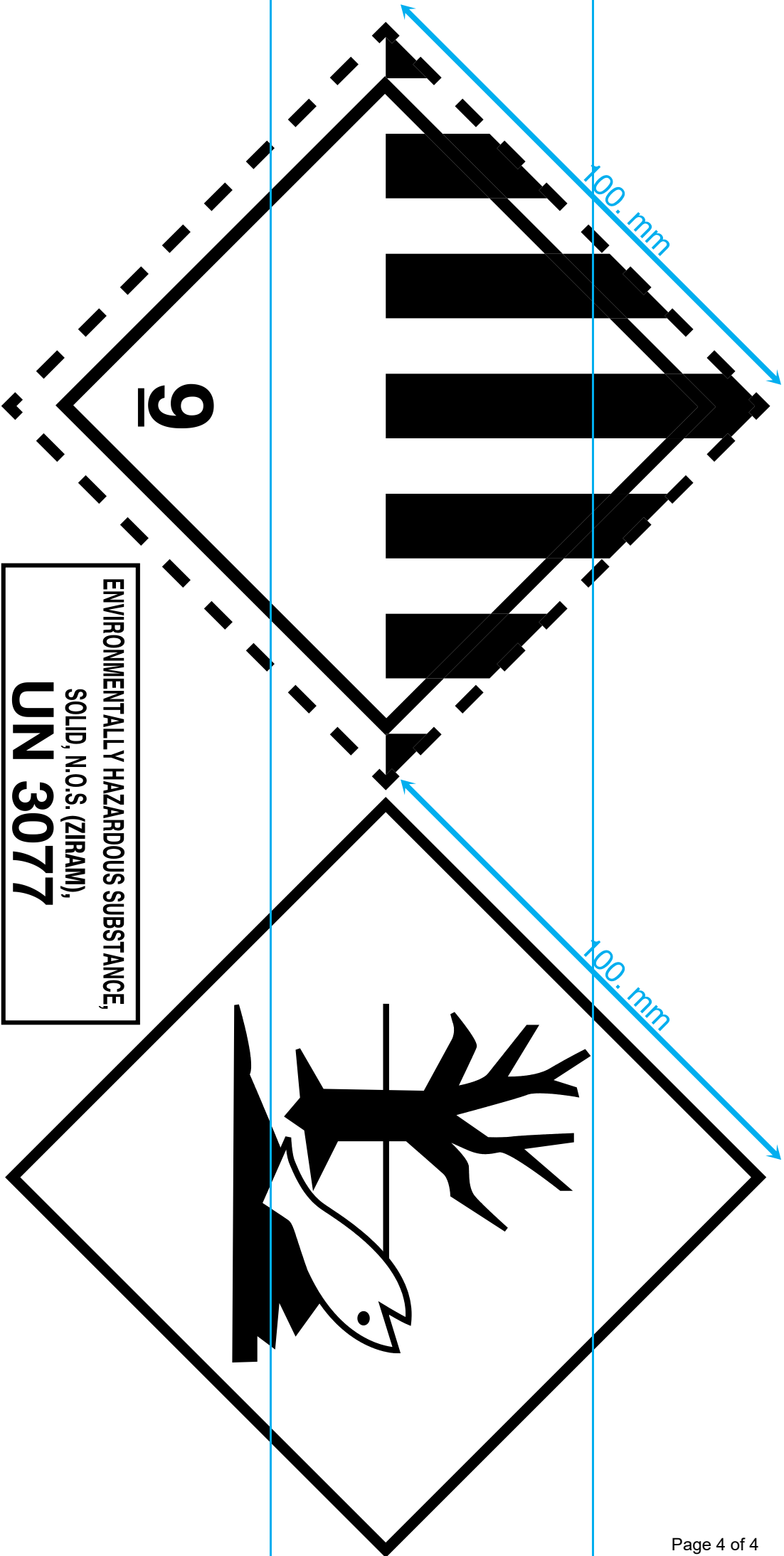
Note: Due to the continuous development of new varieties of each of the ornamental plants and trees listed above, it is advised that prior to the first use on a particular ornamental variety, the grower treat a small sample (6-10 plants) with the product at specified dose to determine if there is going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

### TERMS OF SALE OR USE

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

**Warranty:** Taminco US LLC 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.



ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (ZIRAM),

**UN 3077**