FOR USE AS A SEED TREATMENT FOR CONTROL OF SYSTEMIC DOWNY MILDEW, PYTHIUM SEED ROT, PYTHIUM DAMPING-OFF, AND EARLY SEASON PHYTOPHTHORA DISEASES OF CERTAIN CROPS.

ACTIVE INGREDIENT:
Metalaxyl: N-(2,6-dimethylphenyl)-N-(methoxyacetyl) alanine methyl ester                      30.14%
OTHER INGREDIENTS:                                                                          69.86%
TOTAL 100.00%

Contains 2.65 pounds metalaxyl per gallon (318 grams per liter).

KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS
For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC 1-800-424-9300
For Medical Emergencies Only, Call 1-866-944-8565.

EPA REG. NO. 34704-1061  EPA EST. NO. 228-IL-002  NET CONTENTS 1 GAL (3.78 L)
012213 V10 02G13
FORMULATED FOR
LOVELAND PRODUCTS, INC.®, P.O. BOX 1286, GREELEY, COLORADO 80632-1286
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.
PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance selection chart.

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants,
- Shoes and socks,
- Chemical-resistant gloves such as barrier laminate or nitrile rubber or neoprene rubber or viton.

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.

ENVIRONMENTAL HAZARDS

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 treated areas. DO NOT contaminate water when disposing of equipment washwater or rinsate.

Groundwater Advisory Statement: This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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.

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.
Precautions and Restrictions

This product is a systemic fungicide seed dressing specifically for control of systemic downy mildews, Pythium and Phytophthora spp. For control of other soilborne diseases, combination of captan, thiram and carboxin registered formulations are compatible. DO NOT use with other seed treatment products unless previous experience assures compatibility.

Note: This product is a systemic fungicide having a specific mode of action. This product could be subject to development of resistant strains of fungi. Development of resistance cannot be predicted. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible metalaxyl resistant strains of fungi which may occur. FAILURE TO FOLLOW DIRECTIONS OF THIS LABEL MAY RESULT IN CROP INJURY OR POOR DISEASE CONTROL.

In California: Only for use in commercial seed treating establishments. Not allowed for "on-farm" use.

On-Farm Seed Treatment: Do not apply this product through any type of irrigation system.

DO NOT use treated seed for food or feed purposes or process for oil. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. DO NOT store excess treated seeds beyond planting time.

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 intervals. 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 24 hours.

Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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,
- Shoes plus socks, and
- Chemical-resistant gloves such as barrier laminate or nitrile rubber or neoprene rubber or viton.
Seed treatment on agricultural establishment at or immediately before planting is within the scope of WPS, while commercial treatment of seeds is not within the scope.

**Planter Box Treatment:** Apply at the specified rate and premix with the seed directly in the planter box at planting. Place half the amount of seed into the planter box and apply half the required amount of pesticide to the seed. Stir the seed thoroughly with a paddle until the seed is uniformly coated. Place the remaining half of the seed into the planter box and add the remaining half of the pesticide. Again stir the seed with the paddle until all seed is thoroughly coated.

**For Commercial Seed Treatment:** Seed treated commercially or for sale must be dyed an unnatural color using an EPA approved dye before sale. Federal law requires that bags containing treated seed shall be labeled with the following information:

"This seed has been treated with Dyna-Shield® Metalaxyl 318 FS Fungicide which contains the active ingredient metalaxyl. Do not use treated seed for food, feed, or oil purposes. Store away from feed and foodstuffs. Do not harvest mustard greens. Rapeseed grown and harvested from Dyna-Shield Metalaxyl 318 FS Fungicide treated seed must not be used for human and feed consumption. Rapeseed grown and harvested from Dyna-Shield Metalaxyl 318 FS Fungicide treated seed is only for industrial uses and cannot be used for edible oil or any other human/feed consumption. **DO NOT** use metalaxyl or mefenoxam for control of Pythium in water-seeded rice."

**Tank Mixing:** When tank mixing follow the most restrictive label instructions for any tank mix partner. Do not tank mix with any product that contains a prohibition against tank mixing.

**SEED TREATMENT**

This product may be applied as a water-based slurry with other registered seed treatment insecticides and fungicides through standard slurry or mist-type commercial seed treatment equipment.
<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE (Fluid Ounces per 100 Pounds of Seed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brassica Leafy Vegetables</td>
<td>Pythium damping-off control</td>
<td>0.75</td>
</tr>
<tr>
<td>Broccoli (including Chinese and napa), Brussels sprout, Cabbage (including Chinese bok choy, Chinese napa and mustard), Cauliflower, Cavalo broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, and Rape greens</td>
<td>Pythium damping-off control</td>
<td>0.25 to 0.50</td>
</tr>
<tr>
<td>Canola*</td>
<td>Pythium damping-off control</td>
<td>0.25 to 0.50</td>
</tr>
<tr>
<td>Mustard Seed*</td>
<td>NOTE: Do not harvest mustard greens. Rape greens grown and harvested from Dyna-Shield Metalaxyl 318 FS Fungicide treated seed must not be used for human and feed consumption. Rapeseed grown and harvested from Dyna-Shield Metalaxyl 318 FS Fungicide treated seed is only for industrial uses and cannot be used for edible oil or any other human/food.</td>
<td></td>
</tr>
<tr>
<td>Rapeseed*</td>
<td>Pythium damping-off control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Cotton</td>
<td>Pythium seed rot and damping-off control</td>
<td>0.75</td>
</tr>
<tr>
<td>Cucurbit Vegetables</td>
<td>Pythium damping-off control</td>
<td>0.75</td>
</tr>
<tr>
<td>Chayote (fruit), Citron melon, Cucumber, Gherkin, Gourd (edible) (includes Hyotan, Cucuzza, Hechima, Chinese okra), Momordica spp. (includes Balsam apple, Balsam pear, Bittermelon, Chinese cucumber), Muskmelon (including hybrids and/or varieties of Cucumis melo including True cantaloupe, Cantaloupe, Casaba, Santa Claus melon, Crenshaw melon, Honeydew melon, Honey balls, Persian melon, Golden pershaw melon, Mango melon, Pineapple melon, Snake melon), Watermelon (including hybrids and/or varieties of Citrullus spp.), Pumpkin, Squash (summer, winter including Butternut squash, Calabaza, Hubbard squash, Acorn squash, Spaghetti squash)</td>
<td>Pythium damping-off control</td>
<td>0.75</td>
</tr>
</tbody>
</table>

* Not registered for use in California
CROP DISEASE RATE

Forage Grasses
Grasses grown for hay, grazing or silage, Corn (fodder or silage), Sorghum (hay or silage), and Small grain grown for hay, grazing or silage

Pythium damping-off control 0.75

Grasses grown for hay, grazing or silage, Corn (fodder or silage), Sorghum (hay or silage), and Small grain grown for hay, grazing or silage

Forage Legumes
Alfalfa, Beans (for forage), Clover, Cowpeas (for forage), Cowpea hay, Lespedeza, Peanuts (for forage), Peanut hay, Peas (for forage), Pea vine hay, Soybeans (for forage), Soybean hay, Trefoil, Velvet beans (for forage) and Vetch

Pythium damping-off and early season Phytophthora control 0.75 to 1.50

Fruiting Vegetables
Eggplant, Ground cherry (Physalis spp.), Pepino, Pepper (includes Bell pepper, Chili pepper, Cooking pepper, Pimento, Sweet pepper), Tomatillo, Tomato

Pythium damping-off control 0.75

Grain Crops
Barley, Buckwheat, Corn (Field corn, Sweet corn and Popcorn), Millet, Milo, Oats, Rye, Triticale, and Wheat

Systemic downy mildew control of sweet corn 1.50

USE RATE CONVERSIONS FOR FIELD CORN

<table>
<thead>
<tr>
<th>PRODUCT FLUID OUNCES</th>
<th>MG AI / SEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75</td>
<td>0.0042</td>
</tr>
<tr>
<td>1.50</td>
<td>0.0084</td>
</tr>
</tbody>
</table>

This product contains 8404.5 milligrams metaxyl (active ingredient) per fluid ounce.

Based on standard number of 1786 seeds per pound (100,000 seeds per 56.0 pound bushel).

NOTE: To maintain milligrams active ingredient per seed, adjust fluid ounces per 100 pounds in proportion to the actual seeds per pound compared to the standard number of seeds per pound for that crop.

For example, if there are 1600 corn seeds per pound and the targeted rate is 0.040 milligram active ingredient per seed at a non-adjusted rate of 0.75 fluid ounce per 100 pounds of seed, use: (1600 ÷ 1786) x 0.040 = 0.007 fluid ounce per 100 pounds of seed.
<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE (Fluid Ounces per 100 Pounds of Seed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leafy Vegetables</td>
<td>Pythium damping-off control</td>
<td>0.75</td>
</tr>
<tr>
<td>Leafy Vegetables</td>
<td>Note: Do not apply this product to spinach which is destined to be grown in the greenhouse. Containers or bags containing Dyna-Shield Metalaxyl 318 FS treated spinach seed must be labeled with this restriction.</td>
<td></td>
</tr>
<tr>
<td>Onions (dry bulb and green)</td>
<td>Pythium damping-off control</td>
<td>0.75</td>
</tr>
<tr>
<td>Rice*</td>
<td>Pythium damping-off control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Root and Tuber Vegetables (except potato)</td>
<td>Pythium damping-off control</td>
<td>0.75</td>
</tr>
<tr>
<td>* Not registered for use in California</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CROP DISEASE RATE
(Fluid Ounces per 100 Pounds of Seed)

Seed and Pod Vegetables
Black-eyed peas, Chickpeas (Garbanzos), Cowpeas, Edible soybeans, Field beans, Field peas, Garden peas, Green beans, Kidney beans, Lentil, Lima beans, Lupines, Navy beans, Okra, Peas, Pole beans, Snap beans, String beans and Wax beans

Pythium damping-off control 0.75
Early season Phytophthora control 0.75
Control of Pythium damping-off and systemic downy mildew of peas 1.50

Sorghum
Pythium damping-off control 0.375 to 0.75
Systemic downy mildew (races susceptible to chemical control) 0.75 to 3.00

Note: Apply 0.75 to 1.50 fluid ounces of this product on cultivars which possess sorghum downy mildew resistance. To those cultivars which do not possess resistance to a particular race of sorghum downy mildew in heavily infected areas with recent severe history, apply 1.50 to 3.00 fl oz of this product.

Only high quality sorghum seed (90% germination and above) should be treated with this product.

Soybeans
Pythium damping-off control and early season Phytophthora control 0.75 to 1.50

USE RATE CONVERSIONS FOR SOYBEANS

<table>
<thead>
<tr>
<th>PRODUCT FLUID OUNCES /</th>
<th>MG AI / SEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 lbs seed</td>
<td>1000 seeds</td>
</tr>
<tr>
<td>0.75</td>
<td>0.0025</td>
</tr>
<tr>
<td>1.50</td>
<td>0.0050</td>
</tr>
</tbody>
</table>

This product contains 9404.5 milligrams metalaxyl (active ingredient) per fluid ounce.

Based on standard number of 3000 seeds per pound (150,000 seeds per 50.0 pound bushel).

NOTE: To maintain milligram active ingredient per seed, adjust fluid ounces per 100 pounds in proportion to the actual seeds per pound compared to the standard number of seeds per pound for that crop. For example, if there are 2800 soybean seeds per pound and the targeted rate is 0.0250 milligram active ingredient per seed at a non-adjusted rate of 0.75 fluid ounces per 100 pounds of seed, use: (2800 ÷ 3000) × 0.75 = 0.70 fluid ounce per 100 pounds of seed.
### CROP DISEASE RATE

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE (Fluid Ounces per 100 Pounds of Seed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunflowers</td>
<td>Systemic downy mildew control</td>
<td>1.50 to 3.00</td>
</tr>
<tr>
<td>Golf Grasses</td>
<td>Pythium damping-off control</td>
<td>1.50</td>
</tr>
<tr>
<td>Barley, Corn (field), Oats, Rye and Wheat</td>
<td>Aid in control of seed decay and damping-off caused by Pythium</td>
<td>0.10 to 0.375</td>
</tr>
<tr>
<td>Beans (field, kidney, navy and pinto), Lentils, Peas and Soybeans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peanuts*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rice*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunflowers</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Not registered for use in California

**Note:** Apply only in combination with EPA registered rates of broad-spectrum seed treatment fungicides.
## FOR EXPORT USE ONLY

For treatment of the following seed for export to countries requiring treatment with metalaxyl before importation.

<table>
<thead>
<tr>
<th>CROP</th>
<th>DISEASE</th>
<th>RATE (Fluid Ounces per 100 Pounds of Seed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brassica (Cole) leafy vegetables</td>
<td>Pythium damping-off control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Canola</td>
<td>Pythium damping-off control</td>
<td>0.50 to 1.70 (31 to 100 ml per 100 kg of seed)</td>
</tr>
<tr>
<td>Corn</td>
<td>Pythium damping-off control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Cucurbit vegetables</td>
<td>Pythium damping-off control</td>
<td>0.75</td>
</tr>
<tr>
<td>Fruitline vegetables</td>
<td>Pythium damping-off control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Leafy vegetables</td>
<td>Pythium damping-off control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Millet</td>
<td>Pythium damping-off control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Millet</td>
<td>Systemic downy mildew control</td>
<td>2.50</td>
</tr>
<tr>
<td>Onions</td>
<td>Pythium damping-off control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Peas</td>
<td>Pythium damping-off control and early season Phytophthora control</td>
<td>3.50</td>
</tr>
<tr>
<td>Root and Tuber vegetables</td>
<td>Pythium damping-off control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Sorghum</td>
<td>Systemic downy mildew control</td>
<td>0.75 to 1.50</td>
</tr>
<tr>
<td>Sunflower</td>
<td>Systemic downy mildew control</td>
<td>9.00</td>
</tr>
</tbody>
</table>

Note: Do not apply this product to potatoes.

Seed treated in accordance with the export use pattern must be labeled as follows:

## FOR EXPORT ONLY

NOT FOR DOMESTIC SALES OR USE
STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store in a cool, dry location, out of direct sunlight, and away from exposure to air and moisture. Do not store in temperatures over 90 °F for prolonged period of time. After prolonged storage in intense cold, allow product to return to approximately 75 °F before use.

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

CONTAINER HANDLING:

Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 56 gallons: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.
Before buying or using this product, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product’s label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD “AS IS,” AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

In the unlikely event that buyer or user believes that LOVELAND PRODUCTS, INC. has breached a warranty contained in this label and to the extent required by applicable law, buyer or user must send written notice of its claim to the following address: LOVELAND PRODUCTS, INC., ATTN: LAW DEPARTMENT, PO BOX 1286, GREELEY, CO 80632.

To the extent consistent with applicable law, the buyer’s or user’s exclusive remedy for any injury, loss, or damage resulting from the handling or use of this product, including but not limited to claims of breach of warranty or contract, negligence, strict liability, or other torts, shall be limited to one of the following, at the election of LOVELAND PRODUCTS, INC. or the seller: direct damages not exceeding the purchase price of the product or replacement.
OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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