



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

July 07, 2025

Arianna Shorey  
arianna@pyxisrc.com  
LOVELAND PRODUCTS, INC.

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Label revisions to reflect recent me-too labeling revisions  
Product Name: DYNA-SHIELD METALAXYL 318 FS FUNGICIDE  
Admin Number: 34704-1061  
EPA Receipt Date: 03/03/2025  
Action Case Number: 00650708

Dear Arianna Shorey:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

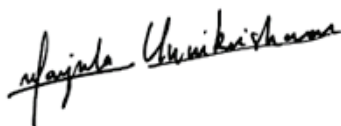
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact Raven Crosby via email at [crosby.raven@epa.gov](mailto:crosby.raven@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Manjula Unnikrishnan". The signature is written in a cursive, flowing style.

Manjula Unnikrishnan  
Product Manager 21  
Fungicide Branch  
Registration Division  
Office of Pesticide Programs

{Note to reviewer: [Text] in brackets denotes optional text. In instances where a word or phrase has multiple optional text options, at least one will be used to ensure that the entire statement is clear and understandable. {Text} in braces denotes where in the final label text will appear and notes to reviewer and will not be included on the final printed label.}

METALAXYL	GROUP	4	FUNGICIDE
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# DYNA-SHIELD

## METALAXYL 318 FS FUNGICIDE

[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%
<b>TOTAL:</b> .....	100.00%

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

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

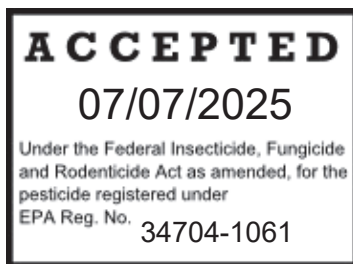
FIRST AID	
If Swallowed:	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• <b>DO NOT</b> induce vomiting unless told to do so by the poison control center or doctor.</li><li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li></ul>
If in Eyes:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 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>
If on Skin or Clothing:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If Inhaled:	<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>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact CHEMTREC at <b>1-800-424-9300</b> for emergency medical treatment information.	

[FOR A MEDICAL EMERGENCY OR HELP WITH ANY SPILL, LEAK, FIRE OR EXPOSURE INVOLVING THIS MATERIAL, CALL DAY OR NIGHT CHEMTREC 1-800-424-9300.]

[See [Below] [Inside] [This] [Label] [Booklet] [For] [Additional] [Precautionary Statements][;] [additional] [First Aid][/] [Spanish First Aid][;] [and] [Environmental Hazards][;] [and] [Directions for Use] [(including] [Mitigations for Endangered Species)][,] [and] [Storage and Disposal] [Instructions]] [;] [and] [Other] [Required] [Spanish] [Labeling] [and] [Other] [Use Information] [.]

Manufactured for:  
**Loveland Products, Inc.®**  
P.O. BOX 1286  
Greeley, [CO][Colorado] 80632-1286 [USA]

EPA REG. NO. 34704-1061  
EPA EST. NO.  
NET CONTENTS GAL. ( L )  
[NONREFILLABLE] [REFILLABLE]  
{Designation for containers > 5 GAL}  
[AMEND V2 0625]



[DYNA-SHIELD® METALAXYL 318 FS FUNGICIDE]  
[EPA REG. NO. 34704-1061]

**PRECAUTIONARY STATEMENTS**  
**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)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants,
- Shoes and socks,
- Chemical-resistant gloves: barrier laminate or nitrile rubber ≥ 14 mils or neoprene rubber ≥ 14 mils or Viton ≥ 14 mils.

**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**

**Users Should:**

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

**ENVIRONMENTAL HAZARDS**

**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.

Maximum usage when applying both metalaxyl- and mefenoxam-containing products to the same crop within the same season: **DO NOT** apply more than the maximum yearly total application rate for the active ingredient as stated on the label of the product containing the lowest yearly total on that crop.

For crops that do not have a stated maximum yearly total application rate of the active ingredient, the maximum yearly total application rate for metalaxyl/mefenoxam for all applications (including seed treatments, foliar applications, soil applications) is 12.3 lb per acre per calendar year. **DO NOT** apply more than 12.3 lb total of the active ingredients, metalaxyl and mefenoxam per acre per calendar year.

**[DYNA-SHIELD® METALAXYL 318 FS FUNGICIDE]  
[EPA REG. NO. 34704-1061]**

**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, including plants, soil or water is:

- Coveralls,
- Shoes plus socks, and
- Chemical-resistant gloves: barrier laminate or nitrile rubber ≥ 14 mils or neoprene rubber ≥ 14 mils or Viton ≥ 14 mils.

**PRODUCT INFORMATION**

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.

**Resistance Management Recommendations:** Dyna-Shield Metalaxyl 318 FS Fungicide contains metalaxyl, a Group 4 fungicide. Metalaxyl belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis.

Fungal populations may contain individuals naturally resistant to Group 4 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, conform the use of this product to sound resistance management strategies including an alternation with fungicides of a different mode of action and/or tank mixes established for the crop and use area.

Base use an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. Consider cultural, biological, and other chemical control practices in the IPM program.

Loveland Products, Inc. encourages responsible product stewardship to ensure effective long-term control of the fungal diseases on this label.

- For further information or to report suspected resistance contact Loveland Products, Inc. retailer, representative or call 1-888-LPI-CUST [(574-2878)]. You can also contact your pesticide distributor or university extension specialist to report resistance.

**Restrictions:**

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

**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.

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 tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**On-Farm Seed Treatment:** **DO NOT** apply this product through any type of irrigation system.

**[DYNA-SHIELD® METALAXYL 318 FS FUNGICIDE]  
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**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.

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:

**SEED BAG LABELING REQUIREMENTS**

Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the Federal Seed Act. The user of this product is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.

THE FEDERAL SEED ACT REQUIRES THAT BAGS CONTAINING TREATED SEEDS BE LABELED WITH THE FOLLOWING STATEMENTS:

*This seed has been treated with **Dyna-Shield Metalaxyl 318 FS Fungicide** (metalaxyl).*

**DO NOT** use for feed, food, or oil purposes.

THE US ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON BAGS CONTAINING SEEDS TREATED WITH **Dyna-Shield Metalaxyl 318 FS Fungicide** (metalaxyl):

*Store treated seed away from feed or foodstuffs.*

**DO NOT** allow children, pets, or livestock to have access to treated seeds.

**DO NOT** use the same auger for treating seed that will handle commercial or feed grains.

**DO NOT** plant any crop not listed on this label within 30 days of planting **Dyna-Shield Metalaxyl 318 FS Fungicide**-treated seed.

**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/feed consumption.

**DO NOT** use Metalaxyl or mefenoxam for control of Pythium in water-seeded rice.

*Wear long pants, long-sleeved shirt, shoes plus socks, and chemical-resistant gloves made of any waterproof material when opening this bag or handling (e.g., loading, pouring) treated seed.*

*After treated seed has been planted, **DO NOT** enter or allow worker entry into areas planted with treated seeds during the restricted-entry interval (REI) of 24 hours. **EXCEPTION:** Workers may enter these areas without restriction if there will be no worker contact with the soil/media subsurface.*

*Treated seed exposed on soil surfaces may be hazardous to wildlife. Cover or collect treated seed spilled during loading and planting.*

**DO NOT** contaminate bodies of water when disposing of planting equipment washwater. If excess treated seed remains after planting, dispose of it by burying away from bodies of water.

**DO NOT** store leftover treated seed where there is a chance of it becoming mixed with untreated seed.

*Store treated seed in cool, dry conditions.*

*Dispose of treated seed packaging in accordance with local requirements.*

*Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticides remain in the ethanol by-products that are used in agronomic practice.*



**[DYNA-SHIELD® METALAXYL 318 FS FUNGICIDE]  
[EPA REG. NO. 34704-1061]**

**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.

**DOMESTIC USE**

<b>CROP</b>	<b>DISEASE</b>	<b>RATE Fluid Ounces per 100 Pounds of Seed</b>
<b>Brassica Leafy Vegetables</b> Broccoli (including Chinese and raab), 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)	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> <li>The <b>maximum annual use rate</b> for metalaxyl (Brassica leafy vegetables) is 2.0 lb ai/A/year of soil-applied metalaxyl-containing products.</li> </ul>		
<b>Beets, Garden &amp; Sugarbeets</b>	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> <li>The <b>maximum annual use rate</b> for metalaxyl on beets is 2.0 lb ai/A/year of soil-applied metalaxyl-containing products.</li> </ul>		
<b>Canola*</b> <b>Mustard Seed*</b> <b>Rapeseed*</b>	<i>Pythium</i> damping-off control	0.25 - 0.50 (0.005 – 0.01 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> <li><b>DO NOT</b> harvest mustard greens.</li> <li>Rape greens grown and harvested from Dyna-Shield Metalaxyl 318 FS Fungicide treated seed must not be used for human and feed consumption.</li> <li>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.</li> </ul>		
<b>Carrots</b>	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> <li>The <b>maximum annual use rate</b> for metalaxyl on carrots is 2.0 lb ai/A/year of soil-applied metalaxyl-containing products.</li> </ul>		
<b>Cotton</b>	<i>Pythium</i> seed rot and damping-off control	0.75 - 1.50 (0.016 – 0.031 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> </ul>		
<b>Cucurbit Vegetables</b> Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd (edible) (includes hyotan, cucuzza, hechima, Chinese okra), <i>Momordica</i> spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), Muskmelon (including hybrids and/or varieties of <i>Cucumis melo</i> (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 <i>Citrullus</i> spp.), Pumpkin, Squash (summer, winter including butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash)	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> <li>The <b>maximum annual use rate</b> for metalaxyl (cucurbit vegetable uses) is 2.0 lb ai/A/year of soil-applied metalaxyl-containing products.</li> </ul>		

**[DYNA-SHIELD® METALAXYL 318 FS FUNGICIDE]  
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CROP	DISEASE	RATE Fluid Ounces per 100 Pounds of Seed
<b>Forage Grasses</b> Grasses grown for hay, grazing or silage, Corn (fodder or silage), Sorghum (hay or silage), and Small grain grown for hay, grazing or silage	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> </ul>		
<b>Forage Legumes</b> 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	<i>Pythium</i> damping-off and early season <i>Phytophthora</i> control	0.75 - 1.50 (0.016 – 0.031 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> </ul>		
<b>Fruiting Vegetables</b> Eggplant, Ground cherry ( <i>Physalis</i> spp.), Pepino, Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> <li>The <b>maximum annual use rate</b> for metalaxyl (fruiting vegetable uses) is 3.0 lb ai/A/year of soil-applied metalaxyl-containing products.</li> </ul>		
<b>Grain Crops</b> Barley, Buckwheat, Corn (field corn, sweet corn and popcorn), Millet, Milo, Oats, Rye, Triticale, and Wheat	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
	Systemic downy mildew control of sweet corn	1.50 (0.031 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> </ul>		

**Use Rate Conversions for Field Corn**

PRODUCT FLUID OUNCES /			MG AI / SEED
100 lbs seed†	1000 seeds	80,000 seed count	
0.75	0.0042	0.334	0.040
1.50	0.0084	0.672	0.080

This product contains 9,404.5 mg metalaxyl (AI) / fluid ounce.

† Based on standard number of 1786 seeds / lb (100,000 seeds / 56 lb bu).

**NOTE:** To maintain mg ai / seed, adjust fluid ounces / 100 lbs in proportion to the actual seeds / lb compared to the standard number of seeds / lb for that crop. For example, if there are 1600 corn seeds / lb and the targeted rate is 0.040 mg ai / seed at a non-adjusted rate of 0.75 fl oz / 100 lbs of seed, use:  $(1600 \div 1786) \times 0.75 = 0.67$  fl oz / 100 lbs of seed.

<b>Leafy Vegetables</b> Amaranth (Chinese spinach), Cardoon, Celery, Celery (Chinese), Celtuce, Chervil, Chrysanthemum (edible-leaved, garland), Corn salad, Cress (garden, upland), Dandelion, Dock (sorrel), Endive (escarole), Fennel (Florence), Lettuce (head and leaf), Orach, Parsley, Purslane (garden, winter), Radicchio (red chicory), Rhubarb, Spinach (including New Zealand and vine), Swiss chard	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> <li><b>DO NOT</b> apply this product to spinach which is destined to be grown in the greenhouse. Containers or bags containing Dyna-Shield Metalaxyl 318 FS Fungicide treated spinach seed must be labeled with this restriction.</li> <li>The <b>maximum annual use rate</b> for metalaxyl (leafy vegetable uses combined except head / leaf lettuce and spinach) is 2.0 lb ai/A/Year metalaxyl-containing products. Head / leaf lettuce is 2.0 lb ai/A/Year of soil-applied and 0.8 lb ai/A/Year of foliar applied metalaxyl-containing products. Spinach is 2.0 lb ai/A/Year at planting and 0.5 lb ai/A/Year soil-applied post planting, shanked in applications or 2.0 lb ai/A/Year at planting and 0.8 lb ai/A/Year foliar-applied metalaxyl-containing products.</li> </ul>		



**[DYNA-SHIELD® METALAXYL 318 FS FUNGICIDE]  
[EPA REG. NO. 34704-1061]**

CROP	DISEASE	RATE Fluid Ounces per 100 Pounds of Seed
<b>Legume Vegetables (except soybeans)</b> Bean ( <i>Lupinus</i> spp.) [includes grain lupin, sweet lupin, white lupin, white sweet lupin]; Bean ( <i>Phaseolus</i> spp.) [includes field bean, kidney bean, lima bean (succulent or dry), navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean]; Bean ( <i>Vigna</i> spp.) [includes adzuki bean, asparagus bean, blackeyed pea (succulent or dry), catjang, Chinese longbean, cowpea (succulent or dry), Crowder pea, moth bean (succulent or dry), mung bean, rice bean, southern pea (succulent or dry), urd bean, yardlong bean]; Broad bean (fava) (succulent or dry); Chickpea (garbanzo bean); Guar; Jackbean; Lablab bean (hyacinth); Lentil; Pea ( <i>Pisum</i> spp.) [includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea]; Pigeon pea (succulent or dry); Sword bean	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
	Early season <i>Phytophthora</i> control	0.75 (0.016 lb ai)
	Control of <i>Pythium</i> damping-off and systemic downy mildew of peas	1.50 (0.031 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> </ul>		
<b>Onions (dry bulb and green)</b>	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> </ul>		
<b>Peanuts*</b>	<i>Pythium</i> seed rot and damping-off control	0.75 (0.016 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> </ul>		
<b>Rice*</b>	<i>Pythium</i> damping-off control	0.75 - 1.50 (0.016 – 0.031 lb ai)
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> <li>If using Dyna-Shield Metalaxyl 318 FS Fungicide treated rice <b>DO NOT</b> use metalaxyl or mefenoxam for control of <i>Pythium</i> in water-seeded rice. Containers or bags containing Dyna-Shield Metalaxyl 318 FS Fungicide treated rice seed must be labeled with this restriction.</li> </ul>		
<b>Root and Tuber Vegetables (except potato)</b> Arracacha, Arrowroot, Artichoke (Chinese, Jerusalem), Beet (garden, sugar), Burdock (edible), Canna (edible), Carrot, Cassava (bitter and sweet), Celeriac, Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Dasheen (taro), Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip, Radish (including Oriental), Rutabaga, Salsify (including black and Spanish), Skirret, Sweet potato, Tanier, Turmeric, Turnip, Yam bean, Yam (true)	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
	<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> <li>The <b>maximum annual use rate</b> for metalaxyl (root and tuber vegetable uses) is 2.0 lb ai/A/year of soil-applied metalaxyl-containing products.</li> </ul>	
<b>Sorghum</b>	<i>Pythium</i> damping-off control	0.375 - 0.75 (0.008 – 0.016 lb ai)
	Systemic downy mildew (races susceptible to chemical control)	0.75 - 3.00 (0.016 – 0.062 lb ai)
Apply 0.75 - 1.50 fl ozs (0.016 – 0.031 lb ai) 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 - 3.00 fluid ounces (0.031 – 0.062 lb ai) of this product. Only high quality sorghum seed (90% germination and above) is advised to be treated with this product.		
<ul style="list-style-type: none"> <li>See “<b>Restrictions</b>” section.</li> </ul>		

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CROP	DISEASE	RATE Fluid Ounces per 100 Pounds of Seed
Soybeans	<i>Pythium</i> damping-off control and early season <i>Phytophthora</i> control	0.75 - 1.50 (0.016 – 0.31 lb ai)

- See “Restrictions” section.

**Use Rate Conversions for Soybeans**

PRODUCT FLUID OUNCES /			MG AI / SEED
100 lbs seed†	1000 seeds	80,000 seed count	
0.75	0.0025	0.20	0.0235
1.50	0.005	0.40	0.047

This product contains 9,404.5 mg metalaxyl (AI) / fluid ounce.

† Based on standard number of 3000 seeds / lb (150,000 seeds / 50 lb bu).

**NOTE:** To maintain mg ai / seed, adjust fluid ounces / 100 lbs in proportion to the actual seeds / lb compared to the standard number of seeds / lb for that crop. For example, if there are 2800 soybean seeds / lb and the targeted rate is 0.0235 mg ai / seed at a non-adjusted rate of 0.75 fl oz per 100 lbs of seed, use:  $(2800 \div 3000) \times 0.75 = 0.70$  fl oz / 100 lbs of seed.

Spinach*	<i>Pythium</i> damping-off control and early season <i>Phytophthora</i> control	0.75 – 1.50 (0.016 – 0.031 lb ai)
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- See “Restrictions” section.
- **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 Fungicide treated spinach seed must be labeled with this restriction.
- The **maximum annual use rate** for metalaxyl (spinach) is 2.0 lb ai/A/Year at planting and 0.5 lb ai/A/Year soil-applied post planting, shanked in applications or 2.0 lb ai/A/Year at planting and 0.8 lb ai/A/Year foliar-applied metalaxyl containing products.

Sunflowers	Systemic downy mildew control	1.50 - 3.00 (0.031 – 0.062 lb ai)
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- See “Restrictions” section.

Turf Grasses Golf Courses, Home Lawns, Reclamation and Erosion Control Projects	<i>Pythium</i> damping-off control	1.50 (0.031 lb ai)
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- See “Restrictions” section.

\* Not registered for use by California

**DIRECTIONS FOR USE AT REDUCED RATES IN COMBINATION WITH OTHER FUNGICIDES**

This product is a systemic fungicide seed dressing which may be applied in combination with other EPA-registered fungicides to aid in control of *Pythium*. This product may be applied as a water-based slurry through standard slurry of mist-type commercial seed treatment equipment.

CROP	DISEASE	RATE Fluid Ounces per 100 Pounds of Seed
Barley, Corn (field), Oats, Rye and Wheat Beans (field, kidney, navy and pinto), Lentils, Peas and Soybeans Peanuts* Rice* Sunflowers	Aid in control of seed decay and damping-off caused by <i>Pythium</i>	0.10 - 0.375 (0.002 – 0.008 lb ai)

\* Not registered for use by California

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- See “**Restrictions**” section.

**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.

<b>CROP</b>	<b>DISEASE</b>	<b>RATE Fluid Ounces per 100 Pounds of Seed</b>
<b>Brassica (Cole) Leafy Vegetables</b>	<i>Pythium</i> damping-off control	0.75- 1.50 (0.016 – 0.031 lb ai)
<b>Canola</b>	<i>Pythium</i> damping-off control	0.50 - 1.70 (0.01 – 0.035 lb ai) (31 to 100 ml per 100 kg of seed)
<b>Corn</b>	<i>Pythium</i> damping-off control	0.75 - 1.50 (0.016 – 0.031 lb ai)
	Systemic downy mildew control	3.00 (0.062 lb ai)
<b>Cucurbit Vegetables</b>	<i>Pythium</i> damping-off control	0.75 (0.016 lb ai)
<b>Fruiting Vegetables</b>	<i>Pythium</i> damping-off control	0.75 - 1.50 (0.016 – 0.031 lb ai)
<b>Leafy Vegetables</b>	<i>Pythium</i> damping-off control	0.75 - 1.50 (0.016 – 0.031 lb ai)
<b>Millet</b>	<i>Pythium</i> damping-off control	0.75 - 1.50 (0.016 – 0.031 lb ai)
	Systemic downy mildew control	2.50 (0.052 lb ai)
<b>Onions</b>	<i>Pythium</i> damping-off control	0.75 - 1.50 (0.016 – 0.031 lb ai)
<b>Peas</b>	<i>Pythium</i> damping-off control and early season <i>Phytophthora</i> control	3.50 (0.072 lb ai)
<b>Root and Tuber Vegetables (except potato)</b>	<i>Pythium</i> damping-off control	0.75 - 1.50 (0.016 – 0.031 lb ai)
	<b>DO NOT</b> apply this product to potatoes.	
<b>Sorghum</b>	<i>Pythium</i> damping-off control	0.75 - 1.50 (0.016 – 0.031 lb ai)
	Systemic downy mildew control	5.25 (0.109 lb ai)
<b>Sunflower</b>	Systemic downy mildew control	9.00 (0.186 lb ai)

- See “**Restrictions**” section.

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

**FOR EXPORT ONLY  
NOT FOR DOMESTIC SALES OR USE**

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### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry location. **DO NOT** store in direct hot sunlight. **DO NOT** store above 90°F for prolonged periods of time. After prolonged storage in intense cold, allow product to return to approximately 75°F before using.

**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.agrecycling.org](http://www.agrecycling.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 ¼ 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 ¼ 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.

**For refillable containers:** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. 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.

**For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC: 1-800-424-9300.**

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

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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.

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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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**{OPTION MARKETING CLAIMS, LOGOS AND GRAPHICS}**

*{Note to Reviewer: These logos and graphics or their respective components may be used throughout this label. The optional claims next to the logo are [SEED TREATMENT] [FUNGICIDE] [FUNGICIDE SEED TREATMENT] [CROP PROTECTION]. The logo may be used by with one or more of the optional claims, or it may be used by itself.}*

