

34704-942

6/26/2008

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
WASHINGTON, DC 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

John Tice  
Manager Registrations  
Loveland Products Inc.  
P.O. Box 1286  
Greeley, CO 80632-1286

**JUN 26 2008**

Subject: Dyna-Shield Metalaxyl Fungicide  
EPA Reg. No. 34704-942  
Amendment dated September 15, 2006  
EPA Decision Number 374415

Dear Mr. Tice:

The amended label referred to above, submitted February 2, 2007 in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following change is made:

1. Move the First Aid block to above the header PRECAUTIONARY STATEMENTS

Your request dated February 6, 2007 to change the signal word to "CAUTION" is not approved. This product is not substantially similar to product 100-639 and studies used to support the registration of 100-639 may not be cited to support the registration of 34704-942. A copy of the Agency's TRB Memorandum DP337496 dated June 14, 2007 is enclosed for your records.

One copy of the label stamped "Accepted with comments" is enclosed for your records. This label supersedes all labels previously accepted for this product. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at [westin.robert@epa.gov](mailto:westin.robert@epa.gov).

Sincerely,

Mary L. Waller  
Product Manager (21)  
Fungicide Branch  
Registration Division (7505P)

Enclosure

# Dyna-Shield™ Metalaxyl Fungicide

**SEED TREATMENT FUNGICIDE**  
**A SEED TREATMENT CHEMICAL FOR CONTROL OF SEED ROT AND DAMPING-OFF DISEASES OF CERTAIN CROPS**

**ACTIVE INGREDIENTS:**

Metalaxyl: N-(2,6-dimethylphenyl)-N-(methoxyacetyl)alanine methyl ester 28.35%

**INERT INGREDIENTS:** ----- 71.65%

**TOTAL:** ----- 100.0%

Contains 2.54 lbs. Metalaxyl per gallon

EPA Reg. No. 34704-942

EPA Est.

**NET CONTENTS**

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING - AVISO**

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.)

Packaged for



P.O. Box 1286  
Greeley, CO 80632-1286

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated**  
**JUN 26 2008**

**Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 34704-942**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING** Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Wear coveralls over short-sleeved shirt and short pants, socks, shoes, gloves and protective eye wear. Remove and wash contaminated clothing 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 E on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear coveralls over short-sleeved shirt and short pants, socks and chemical-resistant footwear, chemical-resistant gloves (such as nitrile, butyl, neoprene, and/or barrier laminate) and protective eye wear (goggles, face shield or safety glasses). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change clothing.

<b>FIRST AID</b>	
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If swallowed	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.	

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or 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 washwaters or rinsate.

Groundwater Advisory: This chemical is known to leach through soil into groundwater 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 groundwater 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.

**IMPORTANT:** Read the entire **Directions for Use** and **Limited Warranty Statement** before using this product.

**AGRICULTURAL USE REQUIREMENTS**

Use this product in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 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, socks and chemical resistant footwear, chemical resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or viton and goggles or face shield.

**In California – Only for use in commercial seed treating establishments. Not allowed for “on-farm” use.**

**USE RESTRICTIONS:**

Seed treated commercially or for sale must be dyed an unnatural color using an EPA approved dye before being sold. Federal law requires that bags containing treated seeds shall be labeled with the following information. “This seed has been treated with Dyna-Shield Metalaxyl Fungicide. Do not use for feed, food or oil purposes. Store away from feeds and foodstuffs.”

Dyna-Shield Metalaxyl Fungicide 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 Dyna-Shield Captan and VITAVAX® registered formulations are compatible. Do not use with other seed treatment products unless previous experience assures compatibility.

Dyna-Shield Metalaxyl Fungicide 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.

**NOTE:** Dyna-Shield Metalaxyl Fungicide is a systemic fungicide having a specific mode of action. Dyna-Shield Metalaxyl Fungicide could be subject to development of resistant strains of fungi. Development of resistance cannot be predicted. Users are advised to carefully read the Conditions of Sale section and consult your State Agricultural Experiment Service Specialist for guidance and ways to control any possible Dyna-Shield Metalaxyl Fungicide resistant strains of fungi which may occur. FAILURE TO FOLLOW DIRECTIONS ON THIS LABEL MAY RESULT IN CROP INJURY OR POOR DISEASE CONTROL.

Carrots*	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 fl. oz. per 100 lbs. of seed. *Not for registered use in California.
Cotton	For <i>Pythium</i> seed rot and damping-off: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 – 1.07 fl. oz. per 100 lbs. of seed.
Soybeans	For <i>Pythium</i> damping-off and early season <i>Phytophthora</i> control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 – 1.5 fl. oz. per 100 lbs. of seed.
Spinach*	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 fl. oz. per 100 lbs. of seed. Do not apply Dyna-Shield Metalaxyl Fungicide to spinach which is destined to be grown in the greenhouse. Containers or bags containing Dyna-Shield Metalaxyl Fungicide treated spinach seed must be labeled with this restriction. *Not registered for use in California.
Peanuts*	For <i>Pythium</i> seed rot and damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 fl. oz. per 100 lbs. of seed. *Not registered for use in California.
Sorghum	For control of <i>Pythium</i> damping-off apply 0.375 – 0.75 fl. oz. of Dyna-Shield Metalaxyl Fungicide per 100 lbs. of seed applied as a seed treatment. For control of systemic downy mildew (races susceptible to chemical control), apply a maximum of 0.75 fl. oz. Dyna-Shield Metalaxyl Fungicide per 100 lbs. of seed 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 1.5 fl. oz. of Dyna-Shield Metalaxyl Fungicide per 100 lbs. of seed treatment. Only high quality sorghum seed (90% germination and above) should be treated with Dyna-Shield Metalaxyl Fungicide.
Sunflowers	For control of systemic downy mildew: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 1.5 – 3.0 fl. oz. per 100 lbs. of seed.
Beets, Garden Sugarbeets	For control <i>Pythium</i> damping-off: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 fl. oz. per 100 lbs. of seed.
Forage Legumes	Alfalfa, clover, lespedeza, beans (for forage), soybeans (for forage), soybean hay, peanuts (for forage), peanut hay, peas (for forage), pea

	vine hay, cowpeas (for forage), cowpea hay, trefoil, vetch and velvet beans (for forage). For <i>Pythium</i> damping-off and early season <i>Phytophthora</i> control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 - 1.5 fl. oz. per 100 lbs. of seed.
Grain Crops	Wheat, barley, rye, oats, millet, milo, corn (field corn, sweet corn, and popcorn), buckwheat and triticale. For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 oz. per 100 lbs. of seed. For systemic downy mildew control of sweet corn: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 1.5 fl. oz. per 100 lbs. of seed.
Rice*	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 fl. oz. per 100 lbs. of seed. If using Dyna-Shield Metalaxyl Fungicide treated rice do not use Ridomil® for control of <i>Pythium</i> in water-seeded rice. *Not registered for use in California.
Seed and Pod Vegetables	Black-eyed peas, chickpeas (Garbanzos), cowpeas, dill, edible soybeans, field beans, field peas, garden peas, green beans, kidney beans, lima beans, lupines, navy beans, okra, peas, pole beans, snap beans, string beans, wax beans, and lentils. For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 fl. oz. per 100 lbs. of seed. For early season <i>Phytophthora</i> control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 fl. oz. per 100 lbs. of seed. For control of <i>Pythium</i> damping-off and systemic downy mildew of peas: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 1.5 fl. oz. per 100 lbs. of seed.
Cucumbers*	For control of <i>Pythium</i> damping-off: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 fl. oz. per 100 lbs. of seed. *Not registered for use in California.
Turf Grasses	For <i>Pythium</i> damping-off control on golf courses, home lawns, reclamation and erosion control projects: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 1.5 fl. oz. per 100 lbs. of seed.
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. For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 fl. oz. per 100 lbs. of seed.

**SEED TREATMENT – EXPORT USE:**

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

Brassica (Cole) Leafy Vegetables	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at the rate of 0.75 – 1.5 fl. oz. per 100 lbs. of seed.
Corn	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 – 1.50 fl. oz. per 100 lbs. of seed. For systemic downy mildew control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 3.0 fl. oz. per 100 lbs. of seed.
Cucurbit Vegetables	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 fl. oz. per 100 lbs. of seed.
Fruiting Vegetables	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 – 1.50 fl. oz. per 100 lbs. of seed.
Leafy Vegetables	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 – 1.50 fl. oz. per 100 lbs. of seed.
Onions	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 – 1.50 fl. oz. per 100 lbs. of seed.
Millet	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 – 1.50 fl. oz. per 100 lbs. of seed. For systemic downy mildew control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 2.5 fl. oz. per 100 lbs. of seed.
Peas	For <i>Pythium</i> damping-off and early season <i>Pytophthora</i> control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 3.1 fl. oz. per 100 lbs. of seed.
Root and Tuber Vegetables	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 – 1.5- fl. oz. per 100 lbs. of seed.
Sorghum	For <i>Pythium</i> damping-off control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.75 – 1.50 fl. oz. per 100 lbs. of seed. For systemic downy mildew control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 4.7 fl. oz. per 100 lbs. of seed.
Sunflowers	For systemic downy mildew control: Apply Dyna-Shield Metalaxyl Fungicide as a seed treatment at 0.9 fl. oz. per 100 lbs. of seed.

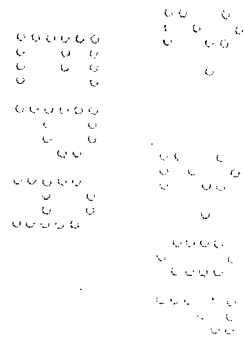
Seed treated in accordance with export use pattern must be labeled as follows:

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

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

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

Corn (field) Wheat, Oats, Barley, Rye	To aid in the control of seed decay and damping-off caused by <i>Pythium</i> : Apply Dyna-Shield Metalaxyl Fungicide as a commercial seed treatment at the rate of 0.10 – 0.375 fl. oz. per 100 lbs. seed. Apply only in combination with EPA registered rates of Loveland Products, Inc. broad-spectrum seed treatment fungicides.
Soybeans, Field beans, Kidney beans, Navy beans, Pinto beans, Lentils, Peas	To aid in control of seed decay and damping-off caused by <i>Pythium</i> : Apply Dyna-Shield Metalaxyl Fungicide as a commercial seed treatment at the rate of 0.10 – 0.375 fl. oz. per 100 lbs. of seed. Apply in combination with EPA registered rates of broad-spectrum seed treatment fungicides.
Sunflowers	To aid in the control of seed decay and damping-off caused by <i>Pythium</i> : Apply Dyna-Shield Metalaxyl Fungicide as a commercial seed treatment at the rate of 0.10 – 0.375 fl. oz. per 100 lbs. of seed. Apply in combination with EPA registered rates of broad-spectrum seed treatment fungicides.
Peanuts*	To aid in control of seed decay and damping-off caused by <i>Pythium</i> : Apply Dyna-Shield Metalaxyl Fungicide as a commercial seed treatment at the rate of 0.10 – 0.375 fl. oz. per 100 lbs. of seed. Apply in combination with EPA registered rates of broad-spectrum seed treatment fungicides. *Not registered for use in California.
Rice*	To aid in the control of seed decay and damping-off caused by <i>Pythium</i> : Apply Dyna-Shield Metalaxyl Fungicide as a commercial seed treatment at the rate of 0.10 – 0.375 fl. oz. per 100 lbs. of seed. Apply in combination with EPA registered rates of broad-spectrum seed treatment fungicides. *Not registered for use in California.





**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage, disposal, or by cleaning of equipment. Open dumping is prohibited. Do not reuse empty containers.

**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 DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or 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.

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

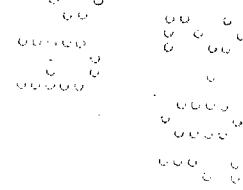
**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**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 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, THIS PRODUCT IS SOLD AS IS TO THE EXTENT ALLOWED BY APPLICABLE LAW. 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, BUYER OR USER MUST SEND, TO THE EXTENT REQUIRED BY APPLICABLE LAW, WRITTEN NOTICE OF SUCH CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, 7251 WEST 4TH STREET, GREELEY, CO 80634.



TO THE EXTENT ALLOWED BY 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 ALLOWED BY 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.

DYNA-SHIELD is a trademark of Loveland Products, Inc.  
VITAVAX is a registered trademark of Chemtura Corporation.  
RIDOMIL is a registered trademark of a Syngenta Group Company

