



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

70506-628

Date of Issuance:

9/20/23

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

STartUP MEFEN Fungicide

Name and Address of Registrant (include ZIP Code):

Zachary B Chesser
Regulatory Labeling Manager
UPL NA INC.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406 USA

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:

Nathan Mellor, Product Manager 21
Fungicide Branch, Registration Division (7505T)

Date:

9/20/23

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 70506-628.”
3. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements 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 Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

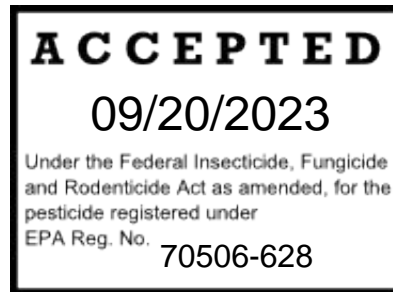
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 08/18/2022.

If you have any questions, please contact Senedu Alemu at alemu.senedu@epa.gov.

Enclosure



[Text in brackets is optional]

MEFENOXAM	Group	4	Fungicide
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STartUP™ MEFEN Fungicide

ACTIVE INGREDIENT:

Active Ingredient 1*

Mefenoxam: D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester45.3%

OTHER INGREDIENTS54.7%

TOTAL100.0%

* A soluble liquid containing 4.1 lbs. of Mefenoxam per gallon (491 grams per liter)

KEEP OUT OF REACH OF CHILDREN

CAUTION / PRECAUCIÓN

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.)

[See [front][back][side][inside][attached booklet][containers inside][inside booklet][inside leaflet]
 [booklet] [panel] for [additional] [Precautionary Statements] [and] [complete] [Directions for Use]
 [First Aid].];

[See [front][back][side][inside][attached booklet][containers inside][inside booklet][inside leaflet]
 [booklet] [panel] inside for complete Directions For Use, including Conditions of Sale and
 Warranty.]

[PEEL HERE TO OPEN ►]

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> 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 the poison control center or doctor. DO NOT give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> 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 IN EYES:	<ul style="list-style-type: none"> 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 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL ROCKY MOUNTAIN POISON AND DRUG SAFETY: 1-866-673-6671 FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.	

For Product Use Information Call 1-800-438-6071

EPA Reg. No. 70506-xxx

EPA Est. No.:

NET CONTENTS:

Classification: Internal (I)

[Batch Code will be placed on the container.]

Produced for:

UPL NA Inc.

630 Freedom Business Center, Suite 402

King of Prussia, PA 19406

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators and other handlers must wear:

- Long pants and Long-sleeved shirt
- Chemical resistant gloves made of barrier laminate, butyl rubber (≥14 mils), neoprene rubber (≥14 mils), nitrile rubber(≥14 mils), polyvinyl chloride (PVC) (≥14 mils) or Viton (≥14 mils).
- Shoes plus socks

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:

- Remove clothing/PPE immediately if pesticides get inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- 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

For terrestrial use, **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Treated seed exposed on soil surface may be hazardous to birds, wildlife, fish, and aquatic invertebrates. Cover or incorporate spilled treated seeds. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

DO NOT discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. **DO NOT** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA

Groundwater Advisory: Mefenoxam 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.

Surface Water Advisory: This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams, and springs will reduce the potential loading of mefenoxam from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT mix or allow to come in contact with oxidizing agents. Hazardous chemical reaction may occur

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Use is permitted on-farm and in commercial seed treatment facilities. **DO NOT** use for at-plant applications in hopperbox, planter-box, or slurry-box seed treatment applications. This product must be applied as a water-based slurry through standard slurry- or mist-type commercial seed treatment equipment.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Then conduct germination tests with a portion of this treated seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of UPL NA, no claims are made to guarantee the germination of carry-over seed or propagating material for all crops when treated with STartUP™ MEFEN.

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.

READ ALL DIRECTIONS COMPLETELY BEFORE USE. FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL OR PLANT INJURY

Manual seed treatments are prohibited.

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 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 12 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 over long-sleeved shirt
- Chemical-resistant gloves made of barrier laminate, butyl rubber (≥14 mils), neoprene rubber (≥14 mils), nitrile rubber (≥14 mils), polyvinyl chloride (PVC) (≥14 mils) or Viton (≥14 mils)
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

PRODUCT INFORMATION

STartUP™ MEFEN is a systemic fungicide seed dressing specifically for protection against systemic downy mildews and diseases caused by soil-borne Pythium and Phytophthora spp. When a rate range is specified, use higher specified rates of Precinct when the disease pressure is expected to be high. For protection against other soil-borne diseases, including Rhizoctonia spp., apply STartUP™ MEFEN in combination with other registered seed treatment fungicides.

USE RESTRICTIONS

- Seed treated with this product must be visually identifiable from untreated seed by the use of an approved colorant or dye to prevent accidental use of treated seed as food for humans or feed for animals. Refer to 21 CFR, Part 2.25. Any colorant or dye added to treated seed must be cleared for use in accordance with 40 CFR, Part 153.155(c).
- The maximum application rate for mefenoxam- and metalaxyl-containing products (including seed treatments, foliar applications, soil application) is 12.3 lb per acre per calendar year. **DO NOT** apply more than 12.3 lb of active ingredients, mefenoxam and metalaxyl, per acre per calendar year.
- Maximum usage when applying both mefenoxam- and metalaxyl-containing products to the same crop within the same year: **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.
- **DO NOT** use treated seed for feed, food, or oil purposes.
- Store treated seed away from feeds and foodstuffs. Treated seed must not be used for or mixed with food or animal feed or processed for oil. Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the Federal Seed Act.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting.
- **DO NOT** allow children, pets, or livestock to have access to treated seed.
- If excess treated seed remains after planting, dispose of it by burying away from bodies of water.
- 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 remain in ethanol by-products that are used in agronomic practice.

RESISTANCE MANAGEMENT

For resistance management, STartUP™ MEFEN contains a Group 4 fungicide. Mefenoxam belongs to the phenylamide class of chemistry which has nucleic acids metabolism activity.

Any fungal population may contain individuals naturally resistant to mefenoxam and other Group 4 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Follow appropriate resistance management strategies.

TO DELAY FUNGICIDE RESISTANCE, TAKE ONE OR MORE OF THE FOLLOWING STEPS:

- During the growing season rotate the use of STartUP™ MEFEN or other Fungicide Resistance Action Committee (FRAC) Group 4 fungicides with other FRAC groups that can control the same pathogens.
- Information regarding FRAC can be found on the web at: <http://www.FRAC.info>
- Use tank mixtures with fungicides from a different FRAC group that are effective on the target pest when such use is permitted.
- Use at least the minimum application rate as labeled by the manufacturer.
- Best management practices (BMP) include adopting an integrated disease management program for fungicide use. This includes scouting, using historical information of applied pesticides, and crop rotation.
- Monitoring for survival of fungal pathogens normally controlled by this product for resistance development.
- Factors that may impact control include host plant resistance, impact of environmental conditions on disease development, treatment thresholds, cultural practices, biological and other chemical control practices.
- If observations while monitoring indicates lack of control, contact your local extension specialist or certified crop advisor. They can help provide additional pesticide resistance-management and/or IPM guidance for specific crops and pathogens.
- For information or to report suspected resistance contact UPL NA Inc. at 1-800-438-6071. You can also contact your pesticide distributor or university extension specialist to report resistance.
- **DO NOT rotate or tank mix this product with any product where resistance has been observed.**

SHAKE OR STIR WELL BEFORE USE.

SEED TREATMENT

Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigor and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigor. Treat using equipment similar to that planned for

Classification: **Internal (I)**

treating the total seed lot. Conduct germination tests on a small portion of seed before committing the total seed lot to a selected seed treatment. Due to seed quality and seed storage conditions beyond the control of UPL NA Inc., no claims are made to guarantee the germination of carry-over seed or propagating material for all crop seed.

For protection against other seed- and soil-borne diseases not controlled by STartUP™ MEFEN, it is highly advised that a compatible seed treatment fungicide be used at EPA registered label rates and tank mixed in combination with STartUP™ MEFEN. These fungicides must show safety on treated seed, alone or in combination with STartUP™ MEFEN. Consult the label for appropriate use rates and follow all use instructions.

Mixing Procedures

Apply STartUP™ MEFEN as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the directed amount of STartUP™ MEFEN into the required amount of water for the slurry treater and dilution rate to be used. Follow the manufacturer application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the treatment.

- Use an EPA-approved dye or colorant that imparts an unnatural color to the seed as required in 40 CFR 153.155 (c).
- Allow seed to dry before bagging.

Tank Mixtures

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.

When mixing with products from other manufacturers, confirm the physical compatibility, seed safety, seed safety in stored seed, and biological efficacy prior to use by conducting a jar test.

Mix all intended seed treatments with a proportional amount of water to achieve the desired slurry mixture in a clear glass container. Mix well and allow mixture to sit for one hour. Remix and observe for incompatibility.

If using Precinct in a tank mixture with other seed treatment products, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix partner label. No label dosage may be exceeded, and the most restrictive label precautions and limitations must be followed. This product may not be mixed with any product which prohibits such mixing.

SEED BAG LABEL 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 mefenoxam fungicide.
- **DO NOT** use for feed, food, or oil purpose.

User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act. In addition, THE US ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON BAGS CONTAINING SEEDS TREATED WITH STartUP™ MEFEN (MEFENOXAM):

- This seed has been treated with # Lb mefenoxam per # Lb of seed [or # mg per seed.
- The maximum application rate for mefenoxam- and metalaxyl-containing products (including seed treatments, foliar applications, soil application) is 12.3 lb per acre per calendar year. **DO NOT** apply more than 12.3 lb of active ingredients, mefenoxam and metalaxyl, per acre per calendar year.
- Maximum usage when applying both mefenoxam- or metalaxyl-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.
- Wear long-sleeved shirt, long pants, shoes plus socks, and chemical resistant gloves when opening this bag or handling (e.g. loading, pouring) treated seed.
- Store treated seed away from feeds and foodstuffs.
- Store treated seed in a cool, dry location.
- **DO NOT** allow children, pets, or livestock to have access to treated seed.
- **DO NOT** store leftover treated seed where there is a chance of it becoming mixed with untreated seed.
- Treated seed must be incorporated into the soil at the specified depth.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting.
- **Groundwater Advisory:** Mefenoxam 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.
- **Surface Water Advisory:** This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams, and springs will reduce the potential loading of mefenoxam from runoff water and sediment. Runoff of this

product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

- Dispose of all excess treated seed by burying seed away from bodies of water.
- **DO NOT** contaminate water bodies when disposing of planting equipment washwater.
- Dispose of 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.

Use an EPA-approved dye or colorant that imparts an unnatural color to the seed as required in 40 CFR 153.155(c). **DO NOT** feed vines or hay grown from treated seed to livestock.

SEED TREATMENT INSTRUCTIONS – DOMESTIC USE

CROP	TARGET DISEASES	USE RATE fl. oz. product/ 100 lb seed	RESTRICTIONS
BRASSICA (COLE) LEAFY VEGETABLES Crop Group 5 Broccoli (Chinese and raab), Brussels sprouts, cabbage (Chinese bok choy, Chinese napa and Chinese mustard), cauliflower, cavalo broccolo, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, and rape greens	Pythium damping-off	0.06 - 0.47 (0.03 – 0.24 oz ai)	DO NOT Apply a Pre-plant or an At-plant Application of mefenoxam or metalaxyl products to seed treated with STartUP™ MEFEN. DO NOT apply more than 0.47 fl. oz.(0.24 oz ai) per application. DO NOT apply more than 1 lb AI/A per year. (from all uses)
BULB VEGETABLES Crop Subgroup 3-07B Garlic (great-headed), leek, onion (dry bulb and green), welch onion, and shallot.	Pythium damping-off	0.06 - 0.47 (0.03 – 0.24 oz ai)	DO NOT apply more than 0.47 fl. oz.(0.24 oz ai) per application. DO NOT apply more than 0.0078 lb AI/A per year. (from all uses)
CEREAL GRAINS Crop Group 15 Barley, Buckwheat, Millet, Oats, Rice, Rye, Triticale and Wheat	Pythium damping-off all cereal crops except field corn and popcorn	0.23 - 0.47 (0.12 – 0.24 oz ai)	When used in combination with other seed treatment fungicides, see rates and application directions for each cereal grain crop listed. Refer to the Product Information section for additional guidance on rate selection of STartUP™ MEFEN. DO NOT apply more than 0.47 fl. oz.(0.24 oz ai) per application. DO NOT apply more than 1 lb AI/A per year. (from all uses)
Field Corn and Popcorn	Pythium seed rot and damping-off	0.23 - 0.47 (0.12 – 0.24 oz ai)	DO NOT apply more than 0.036 lb AI/A per year. (from all uses)
Sweet corn	Pythium seed rot and damping-off when applied in combination with a labeled rate of fludioxonil (e.g. STartUP™ FLUDI EPA Reg No 70506-334).	0.23 - 0.47 (0.12 – 0.24 oz ai)	All sweet corn seed treated with STartUP™ MEFEN must be planted and not carried over to the following year. DO NOT apply more than 0.47 fl. oz.(0.24 oz ai) per application. DO NOT apply more than 0.036 lb AI/A per year. (from all uses)
	Systemic downy mildew	0.94 (0.48 oz ai)	DO NOT apply more than 0.94 fl. oz.(0.48 oz ai) per application.

Sorghum	Pythium damping off on all sorghum cultivars	0.23 - 0.47 (0.12 – 0.24 oz ai) (0.0023 - 0.0047 mg ai/seed*)	DO NOT apply more than 0.47 fl. oz.(0.24 oz ai) per application.
	Pythium damping off protection when disease pressure is expected to be low and applied as a seed treatment in combination with a labeled rate of fludioxonil (e.g. STartUP™ FLUDI EPA Reg. No 70506-334)	0.06- 0.23 (0.03 – 0.12 oz ai) (0.0006 - 0.0023 mg ai/seed*)	*Based on an average seed weight of 14,500 sorghum seeds/lb. Treat only high-quality sorghum seed (90% germ and above) with STartUP™ MEFEN
	Systemic downy mildew on cultivars which possess sorghum downy mildew resistance	0.23 - 0.47 (0.12 – 0.24 oz ai) (0.0023 - 0.0047 mg ai/seed*)	DO NOT apply more than 0.47 fl. oz.(0.24 oz ai) per application. DO NOT apply more than 0.019 lb AI/A per year. (from all uses)
	Cultivars which DO NOT possess resistance to a particular race of sorghum downy mildew grown in areas with recent history of severe disease	0.94 (0.48 oz ai) (0.0094 mg ai/seed*)	Seed treated with the 0.94 fl oz rate must planted and not carried over to the following year. DO NOT apply more than 0.94 fl. oz.(0.48 oz ai) per application.

Rice	Pythium seed rot and damping-off when applied in combination with a labeled rate of thiram (e.g. Thiram 480 DP EPA Reg No. 70506-575)	0.23 - 0.47 (0.12 – 0.24 oz ai)	DO NOT apply more than 0.47 fl. oz.(0.24 oz ai) per application. DO NOT apply more than 1 lb AI/A per year. (from all uses)
CUCURBIT VEGETABLES Crop Group 9 Chayote (fruit), Chinese waxgourd, citron melon, cucumber, gherkin, edible gourd (Hyotan, cucuzza, Chineseokra, and hechima), Momordica spp. (balsam apple, balsam pear, bitter melon, Chinese cucumber), muskmelon (true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), pumpkin, summer squash (crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), winter squash (butternut squash, calabaza, Hubbard squash), Cucumis mixta; Cucumis	Pythium damping-off	0.06 - 0.47 (0.03 – 0.24 oz ai)	DO NOT Apply a Pre-plant or an At-plant Application of mfenoxam or metalaxyl products to seed treated with STartUP™ MEFEN. For seeds sown for transplant production: Use STartUP™ MEFEN with a labeled rate of azoxystrobin (e.g. STartUP™ AZOXY EPA Reg No. 70506-343) DO NOT apply more than 0.47 fl. oz.(0.24 oz ai) per application. DO NOT apply more than 1 lb AI/A per year. (from all uses)

pepo (acorn squash, spaghetti squash), watermelon (hybrids and/or varieties of Citrullus lanatus.)			
FRUITING VEGETABLES AND OKRA Crop Group 8 Eggplant, groundcherry, pepino, pepper (bell pepper, chili pepper, cooking pepper, okra, pimento, sweet pepper), tomatillo, and tomato	Pythium damping-off	0.06 - 0.47 (0.03 – 0.24 oz ai)	DO NOT Apply a Pre-plant or an At-plant Application of mefenoxam or metalaxyl products to seed treated with STartUP™ MEFEN. DO NOT apply more than 0.47 fl. oz.(0.24 oz. ai) per application. DO NOT apply more than 1.5 lb AI/A per year. (from all uses)
Globe Artichoke	Pythium spp. damping-off and early season Phytophthora spp. root rot control	0.23 - 1.46 (0.12 – 0.75 oz ai)	For seeds sown for transplant production Use STartUP™ MEFEN with a labeled rate of azoxystrobin (e.g. STartUP™ AZOXY EPA Reg No. 70506-343). DO NOT apply more than 1.46 fl. oz.(0.75 oz. ai) per application. DO NOT apply more than 1 lb AI/A per year. (from all uses)
GRASSES FORAGE, FODDER, AND HAY Crop Group 17 All grasses (bermudagrass, fescue, brome grass), Graminae family (either green or cured, except sugarcane) and those in the cereal grains group that will be fed to or grazed by livestock, all pasture and range grasses, and grasses grown for silage or for hay	Pythium damping-off	0.06 - 0.47 (0.03 – 0.24 oz ai)	DO NOT apply more than 0.47 fl. oz.(0.24 oz. ai) per application. DO NOT apply more than 0.0081 lb AI/A per year. (from all uses)
LEAFY VEGETABLES Crop Group 4 Amaranth (leafy, Chinese spinach, tampala), arugula, cardoon, celery (including Chinese), celtuce, chervil, chrysanthemum (edible-leaved and garland), corn salad, cress (garden and upland), dandelion, dock, endive, fennel (finocchio), lettuce (head and leaf), orach, parsley, purslane (garden and winter), radicchio, rhubarb, spinach (including New Zealand and vine), and Swiss chard	Pythium damping-off	.06 - 0.47 (0.03 – 0.24 oz ai)	DO NOT apply STartUP™ MEFEN to Spinach that is to be grown in the greenhouse or enclosed, environmentally controlled rooms. Containers or bags of Spinach treated with STartUP™ MEFEN must be labeled as follows: “ DO NOT use seed for spinach to be grown in the greenhouse or inside environmentally controlled rooms.” DO NOT apply more than 0.47 fl. oz.(0.24 oz. ai) per application. DO NOT apply more than 1 lb AI/A per year. (from all uses)
LEGUME VEGETABLES Crop Group 6	Pythium damping-off Early season	0.12 - 0.47 (0.06 – 0.24 oz ai)	DO NOT apply more than 0.47 fl. oz.(0.24 oz. ai) per application.

Black-eyed peas, cowpeas, edible soybeans (immature seed) (edamame), field beans, chick peas (garbanzo beans), field peas, garden peas, green beans, kidney beans, lima beans, navy beans, peas, pinto beans, pole beans, snap beans, string beans, wax beans, lentils, and lupines	<i>Phytophthora</i>		DO NOT apply more than 0.25 lb AI/A per year. (from all uses)
Field beans, kidney beans, navy beans, pinto beans, and lentils when disease pressure is expected to be low in combination with other seed treatment products labeled for these crops	Pythium damping-off	0.06 – 0.23 (0.03 – 0.12 ai)	DO NOT apply more than 0.23 fl. oz.(0.12 oz. ai) per application.
Peas	Pythium damping-off and systemic downy mildew	0.94 (0.48 oz ai)	DO NOT apply more than 0.94 fl. oz.(0.48 oz. ai) per application.
Millet	Pythium damping-off	0.23 - 0.47 (0.12 – 0.24 oz ai)	DO NOT apply more than 0.47 fl. oz.(0.24 oz. ai) per application.
	Systemic downy mildew	1.76 (0.90 g ai)	DO NOT apply more than 1.76 fl. oz.(0.90 oz. ai) per application.
Peanuts	Pythium seed rot and damping-off	0.12 - 0.47 (0.06 – 0.24 oz ai)	DO NOT apply more than 0.47 fl. oz.(0.24 oz. ai) per application.
NONGRASS ANIMAL FEEDS Crop Group 18 Alfalfa, clover, lespedeza, beans (for forage), soybeans (for forage), soybean hay, peas (for forage), pea vine hay, cowpeas (for forage), cowpea hay, trefoil, vetch, and velvet beans (for forage)	Pythium damping-off and early season <i>Phytophthora</i>	0.47 (0.24 oz ai)	Suppression of early season Downy Mildew in Alfalfa and Soybean DO NOT apply more than 0.47 fl. oz.(0.24 oz. ai) per application. DO NOT apply more than 0.0047 lb AI/A per year. (from all uses)
OILSEED GROUP Crop Group 20 Cotton	Pythium seed rot and damping-off	0.23 - 0.83 (0.12 – 0.43 oz ai) (0.008 - 0.015 mg ai/seed*)	*Based on an average seed weight of 4500 cotton seeds/lb. DO NOT apply more than 0.83 fl. oz.(0.43 oz. ai) per application. DO NOT apply more than 0.13 lb AI/A per year. (from all uses)
RAPESEED Subgroup 20A Borage, Crambe, Cuphea, Echium, Flax seed, Gold of pleasure, Hare's ear mustard, Jojoba, Lesquerella, Lunaria, Meadowfoam, Milkweed, Mustard seed, Oil radish, Poppy seed, Rapeseed (canola), Sesame, Sweet rocket. Cultivars, varieties, and/or hybrids of these	Pythium damping-off	0.23 (0.12 oz ai)	DO NOT apply more than 0.23 fl. oz.(0.12 oz. ai) per application. DO NOT apply more than 0.00075 lb AI/A per year. (from all uses)

<p>ROOT AND TUBER VEGETABLES Crop Group 1 (except Potato) Arracacha, arrowroot, artichoke (Chinese and Jerusalem), beet (garden and sugar), burdock (edible), canna (edible), carrot, cassava (bitter and sweet), celery root, chayote, chervil, chicory, chufa, dasheen, ginger, ginseng, horseradish, leren, parsley (turniprooted), parsnip, radish (oriental daikon), rutabaga, salsify (black and Spanish), skirret, sweet potato, taniel, turmeric, turnip, yam bean (jicama, manoic pea), yam</p>	Pythium damping-off	0.06 - 0.47 (0.03 – 0.24 oz ai)	<p>DO NOT Apply STartUP™ MEFEN to Potatoes.</p> <p>DO NOT apply more than 0.47 fl. oz.(0.24 oz. ai) per application.</p> <p>For Carrots: DO NOT apply more than 0.65 lb AI/A per year. (from all uses)</p> <p>For Potatoes: DO NOT apply more than 0.34 lb AI/A per year.</p> <p>For all other Root and Tuber Vegetables: DO NOT apply more than 1 lb AI/A per year. (from all uses)</p>
Soybean	Pythium damping-off and early season <i>Phytophthora</i> protection	0.12 - 0.47 (0.06 – 0.24 oz ai) (0.006 - 0.024 mg ai/seed*)	<p>*Based on an average seed weight of 2,800 soybean seeds/lb. For best early season <i>Phytophthora</i> protection, use the higher specified rate.</p> <p>DO NOT apply more than 0.47 fl. oz.(0.24 oz. ai) per application.</p> <p>DO NOT apply more than 0.052 lb AI/A per year. (from all uses)</p>
Sunflower	Systemic downy mildew	0.94 (0.48 oz ai) (0.029 mg ai/seed*)	<p>*Based on an average seed weight of 4,500 sunflower seeds/lb.</p> <p>DO NOT apply more than 0.94 fl. oz.(0.484 oz ai) per application.</p> <p>DO NOT apply more than 0.002576 lb AI/A per year. (from all uses)</p>
Turfgresses (All)	Pythium damping-off	0.47 - 0.94 (0.24 – 0.48 oz)	<p>For use on golf courses, home lawns, reclamation and erosion control projects.</p> <p>DO NOT apply more than 0.94 fl. oz.(0.48 oz. ai) per application.</p> <p>DO NOT apply more than 6.0 lb AI/A per year. (from all uses)</p>

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store STartUP MEFEN in a cool, dry place away from food, drink, and animal feeding stuffs. **DO NOT** store below 32°F (0°C). Repeated product freezing and thawing should be avoided. Shake or stir product 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 in accordance with Federal, State or local procedures under the Resource Conservation and Recovery Act.

CONTAINER HANDLING:

Non-refillable containers (1, 2.5, & 30 gallon): DO NOT reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

(Non-refillable <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. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Non-refillable >5 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. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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 for 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.

REFILLABLE CONTAINER (>250 gallon): 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 the 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 process two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of UPL NA Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control UPL NA Inc. and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold UPL NA Inc. and Seller harmless for any claims relating to such factors.

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