MEFENOXAM | GROUP 4 | FUNGICIDE

PULL HERE TO OPEN

# Apron XL®

syngenta®

## Fungicide

A seed treatment product for protection against *Pythium* and *Phytophthora* causing damping-off, seed rot, and systemic downy mildew diseases of certain crops

| | |
|---|---|
| *Active Ingredients:* | |
| Mefenoxam* | 33.3% |
| *Other Ingredients:* | 66.7% |
| *Total:* | 100.0% |

*CAS Nos. 70630-17-0 and 69516-34-3

Apron XL is a flowable concentrate for seed treatment containing 3.0 pounds of mefenoxam per gallon.

## 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.)

See additional precautionary statements and directions for use inside booklet.

**EPA Reg. No. 100-799 EPA Est. 100-NE-001**

**Product of Switzerland**
**Formulated in the USA**

**SCP 799B-L1H 0623**
**4186796**

**1 gallon**
**Net Contents**

®

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## 1.0 FIRST AID

| FIRST AID | |
|---|---|
| **If in eyes** | • Hold eye open and rinse slowly and gently with water for 15-20 minutes.<br>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.<br>• Call a poison control center or doctor for treatment advice. |
| **If swallowed** | • Call a poison control center or doctor immediately for treatment advice.<br>• Have person sip a glass of water if able to swallow.<br>• **DO NOT** induce vomiting unless told to do so by a poison control center or doctor.<br>• **DO NOT** give anything by mouth to an unconscious person. |
| **If on skin or clothing** | • Take off contaminated clothing.<br>• Rinse skin immediately with plenty of water for 15-20 minutes.<br>• 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. | |
| **HOTLINE NUMBER**<br>For 24-Hour Medical Emergency Assistance (Human or Animal) or<br>Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),<br>Call<br>**1-800-888-8372** | |

## 2.0 PRECAUTIONARY STATEMENTS

### 2.1 Hazards to Humans and Domestic Animals

**WARNING/AVISO**

Causes substantial but temporary eye irritation. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. 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.

### 2.2 Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton™ ≥14 mils
- Shoes plus socks
- Protective eyewear: faceshield, goggles, or safety glasses

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### 2.2.1 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.

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#### 2.2.2 ENGINEERING CONTROLS

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### 2.2.3 USER SAFETY RECOMMENDATIONS

**User Safety Recommendations**

**Users should:**

- 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.

### 2.3 Environmental Hazards

Do not contaminate water when disposing of equipment washwater or rinsate. Treated seed exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting, including in row ends.

#### 2.3.1 GROUNDWATER ADVISORY

Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

#### 2.3.2 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.

## DIRECTIONS FOR USE

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

Apron XL may only be used in accordance with directions on this label or separately published EPA approved supplemental labeling for this product.

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.

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 Syngenta, no claims are made to guarantee the germination of carry-over seed or propagating material for all crops when treated with Apron XL.

**Restriction: Maximum usage when applying 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.

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

## 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 (WPS).

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 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
- 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
- Protective eyewear

## 3.0 PRODUCT INFORMATION

Apron XL is a systemic fungicide seed treatment 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 Apron XL when the disease pressure is expected to be high.

For protection against other soil-borne diseases, including those caused by *Fusarium* spp. and *Rhizoctonia* spp., Apron XL must be applied in combination with other registered seed treatment fungicides.

Apply Apron XL as a water-based slurry through standard liquid-type seed treatment equipment that provides uniform seed coverage. It is advised to use seed treaters with atomizers or spinning discs for better product coverage on the seed.

### 3.1 Resistance Management

Apron XL contains mefenoxam, a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to Apron XL 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. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of Apron XL or other Group 4 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM guidance for specific crops and pathogens.
- For further information or to report suspected resistance contact Syngenta at 1-866-796-4368. You can also contact your pesticide distributor or university extension specialist to report resistance.

Syngenta encourages responsible product stewardship to ensure effective long-term control of the fungal diseases on this label.

## 4.0 APPLICATION DIRECTIONS

**Important:** Recirculate Apron XL thoroughly before using.

Follow the manufacturer's application instructions for the seed treatment equipment being used.

Apply Apron XL as a water-based slurry through standard liquid-type seed treatment equipment that provides uniform seed coverage. It is advised to use seed treaters with atomizers or spinning discs for better product coverage on the seed. The total application volume must be sufficient to provide the desired level of coverage. Dilution is typically done with water or liquid inoculants. Thoroughly mix the specified amount of Apron XL into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used. Uneven or incomplete seed coverage may not give the desired level of disease control.

Certain crops require addition of inoculants when the seed is treated or planted. Apron XL is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying Apron XL with inoculants.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution. Clean out any unused product from the treater after treating or maintain constant agitation if the leftover slurry will be maintained overnight.

### 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).
- Allow seed to dry before bagging.

Follow planter manufacturer's specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

## 4.1 Tank Mixtures

Apron XL mixes easily with water and other water-based seed treatments. When mixing with products from other manufacturers, test the compatibility 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.

**Mixing Apron XL with tank-mix partners:** Add ½ of the required water to the mix tank and turn on the agitation. Mechanical agitation is preferred. If using wettable powders, add them first to clean water allowing them to completely disperse prior to adding Apron XL or other products. Allow each tank-mix partner to completely disperse before adding the next product. Add the remaining amount of water and agitate. Maintain agitation until the entire slurry mixture has been used.

For protection against other soil-borne diseases, including those caused by *Fusarium* spp. and *Rhizoctonia* spp., apply Apron XL in combination with other registered seed treatment fungicides.

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.

**USE RESTRICTION:** When using formulations that do not contain dye, to comply with 40 CFR 153.155, all seed treated with an economic poison must be colored with an EPA approved dye including one of the dyes listed in 40 CFR Sections 180.910 and 180.920 to distinguish and prevent subsequent inadvertent use as food for man or feed for animals.

## 5.0 ROTATIONAL CROP RESTRICTIONS

In the event of a crop failure or harvest of a crop grown from seed treated with Apron XL, the field may be replanted immediately with any crops.

## 6.0 SEED CONTAINER LABEL REQUIREMENTS

THE FEDERAL SEED ACT REQUIRES THAT CONTAINERS OF SEEDS TREATED WITH APRON XL MUST BE LABELED WITH THE FOLLOWING STATEMENTS:

- This seed has been treated with mefenoxam fungicide.
- **DO NOT** use treated seed for feed, food, or oil purposes.

THE US ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON CONTAINERS OF SEEDS TREATED WITH APRON XL:

- Store away from feed and foodstuffs.
- **DO NOT** allow children, pets or livestock to have access to treated seeds.
- Treated seed exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting, including in row ends.
- Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves when handling treated seed.
- Dispose of 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 ethanol by-products that are used for agronomic practice.
- Treated seed must be incorporated into the soil at the advised depth.
- **Groundwater Advisory:** Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.
- **For Brassica Head and Stem Vegetables, Bulb Vegetables, Cucurbits Vegetables and Fruiting Vegetables: DO NOT** apply a pre-plant or an at-plant application of mefenoxam or metalaxyl products to seed treated with Apron XL.
- **For Bulb Vegetables: DO NOT** apply more than 0.0078 lb ai/A (3.5 g ai/A) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment
- **For Grass Forage, Fodder and Hay: DO NOT** apply more than 0.0081 lb ai/A (3.7 g ai/A) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment
- **For Legume Vegetables (Succulent or Dried) and Foliage of Legume Vegetables, except Soybean: DO NOT** apply more than 0.25 lb ai/A (115 g ai/A) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment
- **For Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay): DO NOT** apply more than 0.0047 lb ai/A (2.1 g ai/A) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment
- **For Peanuts: DO NOT** apply more than 0.071 lb ai/A (32 g ai/A) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment
- **For Root and Tuber Vegetables: DO NOT** apply more than 0.020 lb ai/A (9.2 g ai/A) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment
- **For Soybean: DO NOT** apply more than 0.052 lb ai/A (23 g ai/A) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment
- **For Spinach: DO NOT** use seed for spinach to be grown in the greenhouse or inside environmentally-controlled rooms.

# 7.0 SEED TREATMENT DIRECTIONS – DOMESTIC USE

## 7.1 Artichoke, Globe

| **Crop** | | | |
|---|---|---|---|
| Artichoke, Globe | | | |
| **Target Diseases** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off and early-season Phytophthora root rot | 0.32 – 2 | 0.008 - 0.048 | 0.003 – 0.019 |
| **Additional Information** | | | |
| • *based on an average seed weight of 11,500 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0063 lb ai/A/year (0.126 lb ai/100 lb seed) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.2 Brassica Head and Stem Vegetable Crop Group 5-16

| Crops | |
|---|---|
| Broccoli<br>Brussels sprouts<br>Cabbage<br>Cabbage, Chinese (napa) | Cauliflower<br>Cultivars, varieties, and hybrids of these commodities |

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.085 – 0.64 | 0.002 – 0.015 | 0.0001 – 0.0007 |

**Additional Information**

- *based on an average seed weight of 100,000 seeds/lb
- For seeds sown for transplant production: Use Apron XL with a labeled rate of azoxystrobin (e.g., Dynasty®, EPA Reg. No. 100-1159).

**USE RESTRICTIONS**

- **DO NOT** apply a pre-plant or an at-plant application of mefenoxam or metalaxyl products to seed treated with Apron XL. Mefenoxam foliar/in-furrow products (e.g., Ridomil Gold® SL, EPA Reg. No. 100-1202) are allowed to be applied beginning 6 weeks after transplanting.
- **Maximum Annual Application Rate: DO NOT** apply more than 0.00082 lb ai/A/year (0.031 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment.

**Resistance Management:**
- Refer to **Section 3.1**.

## 7.3 Bulb Vegetable Crop Group 3-07

| Crops | |
|---|---|
| Chive, fresh leaves<br>Chive, Chinese, fresh leaves<br>Daylily, bulb<br>Elegans hosta<br>Fritillaria, bulb<br>Fritillaria, leaves<br>Garlic, bulb<br>Garlic, great-headed, bulb<br>Garlic, Serpent, bulb<br>Kurrat<br>Lady's leek<br>Leek<br>Leek, wild<br>Lily, bulb | Onion, Beltsville bunching<br>Onion, bulb<br>Onion, Chinese, bulb<br>Onion, fresh<br>Onion, green<br>Onion, macrostem<br>Onion, pearl<br>Onion, potato, bulb<br>Onion, tree, tops<br>Onion, Welsh, tops<br>Shallot, bulb<br>Shallot, fresh leaves<br>Cultivars, varieties, and/or hybrids of these |

*continued...*

## 7.3 Bulb Vegetable Crop Group 3-07 *(continued)*

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.085 – 0.64 | 0.002 – 0.015 | 0.0001 – 0.0007 |
| **Additional Information** | | | |
| • *based on an average seed weight of 100,000 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0078 lb ai/A (0.031 lb ai/100 lb seed) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment on Bulb Vegetable Crop Group 3-07 | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.4 Cereal Grains

### 7.4.1 BARLEY, BUCKWHEAT, MILLET (PEARL AND PROSO), OATS, RICE, RYE, TRITICALE, WHEAT AND WILD RICE

| **Crops** | |
|---|---|
| Barley<br>Buckwheat<br>Millet, Pearl<br>Millet, Proso<br>Oats | Rice<br>Rye<br>Triticale<br>Wheat<br>Wild Rice |

| Target Diseases | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| **Barley, Buckwheat, Pearl Millet, Proso Millet, Oats, Rice, Rye, Triticale, Wheat, and Wild Rice**<br>Pythium damping-off | 0.12 – 0.64 | 0.003 – 0.015 | 0.00087 – 0.0047 |
| **Millet**<br>Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.0023 – 0.0047 |
| Systemic downy mildew | 1.28 | 0.031 | 0.0093 |
| **Additional Information** | | | |
| • *based on an average seed weight of 15,000 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.097 lb ai/A/year (0.062 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

### 7.4.2 CORN

| **Crops** | | | |
|---|---|---|---|
| Field Corn<br>Sweet Corn<br>Popcorn | | | |
| **Target Diseases** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed** |
| **Field Corn and Popcorn**<br>Pythium seed rot and damping-off | 0.0425 – 0.085 | 0.001 – 0.002 | 0.0025 – 0.005* |
| **Sweet Corn**<br>Pythium seed rot and damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.011 – 0.022** |
| Systemic downy mildew | 1.28 | 0.031 | 0.044** |

**Additional Information**

- *based on an average seed weight of 1,800 corn seeds/lb
- **based on an average seed weight of 3,200 sweet corn seeds/lb
- For a greater spectrum of seedling disease protection of corn, combine Apron XL with azoxystrobin (e.g., Dynasty, EPA Reg. No. 100-1159), fludioxonil (e.g., Maxim® 4FS, EPA Reg. No. 100-758), picarbutrazox (Vayantis®, EPA Reg. No. 100-1635), or sedaxane (e.g., Vibrance®, EPA Reg. No. 100-1374).
- All sweet corn seed treated with Apron XL must be planted and not carried over to the following year.

**USE RESTRICTIONS**

- **Maximum Annual Application Rate: DO NOT** apply more than 0.0012 lb ai/A/year (0.004 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment.

**Resistance Management:**
- Refer to **Section 3.1**.

### 7.4.3 SORGHUM

| Crop | | | |
|---|---|---|---|
| Sorghum | | | |
| **Target Diseases** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off on all sorghum cultivars | 0.32 – 0.64 | 0.008 – 0.015 | 0.0024 - 0.0048 |
| Pythium damping-off when disease pressure is expected to be low | 0.085 – 0.32 | 0.002 – 0.008 | 0.0006 - 0.0024 |
| Systemic downy mildew on cultivars which possess sorghum downy mildew resistance | 0.32 – 0.64 | 0.008 – 0.015 | 0.0024 - 0.0048 |
| Systemic downy mildew on cultivars which do not possess resistance to a particular race of sorghum downy mildew grown in areas with recent history of severe disease | 1.28 | 0.031 | 0.0096 |
| **Additional Information** | | | |
| • *based on an average seed weight of 14,500 sorghum seeds/lb<br>• Only treat high-quality sorghum seed (90% germination and above) with Apron XL.<br>• Seed treated with the 1.28 fl oz rate must be planted and not carried over to the following year. | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0074 lb ai/A/year (0.062 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.5 Cotton, Crop Subgroup 20C

| Crop | | | |
|---|---|---|---|
| Cotton | | | |
| **Target Diseases** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium seed rot and damping-off | 0.32 – 1.14 | 0.008 – 0.027 | 0.008 – 0.028 |
| **Additional Information** | | | |
| • *based on an average seed weight of 4,500 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0104 lb ai/A/year (0.055 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.6 Cucurbit Vegetables Crop Group 9

| Crops | | |
|---|---|---|
| Chayote (fruit)<br>Chinese waxgourd (Chinese preserving melon)<br>Citron melon<br>Cucumber<br>Gherkin<br>Gourd, edible (*Lagenaria* spp.)<br>Hyotan<br>Cucuzza<br>Gourd, edible (*Luffa acutangula, L. cylindrical*)<br>Hechima<br>Chinese okra<br>*Momordica* spp.<br>Balsam apple<br>Balsam pear<br>Bitter melon<br>Chinese cucumber | Muskmelon (hybrids and/or cultivars of *Cucumis melo*)<br>Cantaloupe<br>Casaba<br>Crenshaw melon<br>Golden pershaw melon<br>Honeydew melon<br>Honey balls<br>Mango melon<br>Persian melon<br>Pineapple melon<br>Santa Claus melon<br>Snake melon<br>True cantaloupe<br>Pumpkin | Squash, summer (*Cucurbita pepo* var. *melopepo*)<br>Crookneck squash<br>Scallop squash<br>Straightneck squash<br>Vegetable marrow<br>Zucchini<br>Squash, winter (*Cucurbita maxima, C. moschata*)<br>Butternut squash<br>Calabaza<br>Hubbard squash<br>Squash, winter (*Cucurbita mixta, C. pepo*):<br>Acorn squash<br>Spaghetti squash<br>Watermelon (hybrids and/or varieties of *Citrullus lanatus*) |

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.085 – 0.64 | 0.002 – 0.015 | 0.0006 – 0.0047 |

**Additional Information**

- *based on an average seed weight of 15,000 seeds/lb
- For seeds sown for transplant production: Use Apron XL with a labeled rate of azoxystrobin (e.g., Dynasty, EPA Reg. No. 100-1159).

**USE RESTRICTIONS**

- **Maximum Annual Application Rate: DO NOT** apply more than 0.0078 lb ai/A/year (0.031 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment.
- **DO NOT** apply a pre-plant or an at-plant application of mefenoxam or metalaxyl products to seed treated with Apron XL. Mefenoxam foliar/in-furrow products (e.g., Ridomil Gold SL, EPA Reg. No. 100-1202) are allowed to be applied beginning 6 weeks after transplanting.

**Resistance Management:**

- Refer to **Section 3.1**.

## 7.7 Fruiting Vegetable Crop Group 8-10

| Crops | | |
|---|---|---|
| African eggplant<br>Bush tomato<br>Cocona<br>Currant tomato<br>Eggplant<br>Garden huckleberry<br>Goji berry | Groundcherry<br>Martynia<br>Naranjilla<br>Okra<br>Pea eggplant<br>Pepino<br>Pepper, bell | Pepper, non-bell<br>Roselle<br>Scarlet eggplant<br>Sunberry<br>Tomatillo<br>Tomato<br>Tree Tomato<br>Cultivars, varieties and/or hybrids of these |

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.085 – 0.64 | 0.002 – 0.015 | 0.00006 – 0.0005 |

**Additional Information**

- *based on an average seed weight of 150,000 seeds/lb
- For seeds sown for transplant production: Use Apron XL with a labeled rate of azoxystrobin (e.g., Dynasty, EPA Reg. No. 100-1159).

**USE RESTRICTIONS**

- **Maximum Annual Application Rate: DO NOT** apply more than 0.0047 lb ai/A/year (0.031 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment.
- **DO NOT** apply a pre-plant or an at-plant application of mefenoxam or metalaxyl products to seed treated with Apron XL. Mefenoxam foliar/in-furrow products (e.g., Ridomil Gold SL, EPA Reg. No. 100-1202) are allowed to be applied beginning 6 weeks after transplanting.

**Resistance Management:**
- Refer to **Section 3.1**.

## 7.8 Grass Forage, Fodder, and Hay Crop Group 17

| Crops |
|---|
| Graminae Family (except Sugarcane and crops included in Forage, Fodder, and Straw of Cereal Grains Crop Group 16)<br>• Green<br>• Cured<br>Grasses Grown for Hay or Silage<br>All Pasture and Range Grasses |

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.085 – 0.64 | 0.002 – 0.015 | 0.00004 – 0.00033 |

**Additional Information**

- *based on average seed weight of 210,000 seeds/lb

**USE RESTRICTIONS**

- **Maximum Annual Application Rate: DO NOT** apply more than 0.0081 lb ai/A (3.7 g ai/A) per calendar year of mefenoxam- or metalaxyl-containing products as a seed treatment on Grass Forage, Fodder, and Hay Crop Group 17.

**Resistance Management:**
- Refer to **Section 3.1**.

## 7.9 Leaf Petiole Vegetable Crop Subgroup 22B

| Crops | | | |
|---|---|---|---|
| Cardoon<br>Celery<br>Celery, Chinese<br>Celtuce<br>Fennel, Florence (finochio) | Fuki<br>Kohlrabi<br>Rhubarb<br>Udo<br>Zuiki<br>Cultivars, varieties, and hybrids of the commodities in crop subgroup 22B | | |
| **Target Disease** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off | 0.085 – 0.64 | 0.002 – 0.015 | 0.000009 – 0.00007 |
| **Additional Information** | | | |
| • *based on an average seed weight of 1,000,000 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.00002 lb ai/A/year (0.031 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.10 Leafy Vegetable Crop Group 4-16

| Crops | | |
|---|---|---|
| Amaranth, Chinese | Chrysanthemum, garland | Maca, leaves |
| Amaranth, Leafy | Cilantro, fresh leaves | Mizuna |
| Arugula (Roquette) | Collards | Mustard green |
| Aster, Indian | Corn Salad | Orach |
| Blackjack | Cosmos | Parsley, fresh leaves |
| Broccoli, Chinese (gai lon) | Cress, garden | Plantain, Buckhorn |
| Broccoli Raab (rapini) | Cress, upland (yellow rocket, winter cress) | Primrose, English |
| Cabbage, Abyssinian | Dandelion, leaves | Purslane, Garden |
| Cabbage, Chinese (bok choy) | Dock (sorrel) | Purslane, Winter |
| Cabbage, seakale | Dol-nam-mul | Radish, leaves |
| Cat's Whiskers | Ebolo | Rape Greens |
| Cham-chwi | Endive (escarole) | Rocket, wild |
| Cham-na-mul | Escarole | Shepherd's Purse |
| Chervil, fresh leaves | Fameflower | Spinach |
| | Feather Cockscomb | Spinach, Malabar |
| | Good King Henry | Spinach, New Zealand |
| | Hanover Salad | Spinach, Tanier |
| | Huauzontle | Swiss chard |
| | Jute, leaves | Turnip Greens |
| | Kale | Violet, Chinese, leaves |
| | Lettuce, Bitter | Cultivars, varieties, and hybrids of these commodities |
| | Lettuce, Head | |
| | Lettuce, Leaf | |

*continued...*

## 7.10 Leafy Vegetable Crop Group 4-16 *(continued)*

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.085 – 0.64 | 0.002 – 0.015 | 0.00002 – 0.00018 |
| **Additional Information** | | | |
| • *based on average seed weight of 400,000 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0194 lb ai/A/year (0.078 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment.<br>• **DO NOT APPLY** Apron XL to spinach that is to be grown in the greenhouse or enclosed environmentally-controlled rooms.<br>• Containers or bags of spinach treated with Apron XL must be labeled as follows: **"DO NOT USE SEED FOR SPINACH TO BE GROWN IN THE GREENHOUSE OR INSIDE ENVIRONMENTALLY-CONTROLLED ROOMS."** | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.11 Leaves of Root and Tuber Vegetables (Human Food or Animal Feed) Crop Group 2

| Crops | |
|---|---|
| Beet, Garden<br>Beet, Sugar<br>Burdock, edible<br>Carrot<br>Cassava, Bitter and Sweet<br>Celeriac (celery root)<br>Chervil, Turnip-Rooted<br>Chicory<br>Dasheen (taro) | Parsnip<br>Radish<br>Radish, Oriental (daikon)<br>Rutabaga<br>Salsify, Black<br>Sweet Potato<br>Tanier (cocoyam)<br>Turnip<br>Yam, True |

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.085 – 0.64 | 0.002 – 0.015 | 0.00003 – 0.00023 |
| **Additional Information** | | | |
| • *based on an average seed weight of 300,000 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0203 lb ai/A/year (0.062 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.12 Legume Vegetable Group – Crop Group 6-22, except Soybean (See Soybean) and Forage and Hay of Legume Vegetable Group – Crop Group 7-22

| Crops | | |
|---|---|---|
| African yam bean, dry seed | Bean (*Vigna* spp.), edible podded | Horse gram, dry seed |
| American potato bean, dry seed | asparagus bean | Jackbean, edible podded, succulent |
| Bean (*Lupinus* spp.), succulent shelled | catjang bean | shelled and dry seed |
| and dry seed | Chinese longbean | Lablab bean (hyacinth bean), edible |
| Andean lupin | cowpea | podded, succulent shelled, and dry seed |
| blue lupin | moth bean | Lentil, edible podded, succulent shelled |
| grain lupin | mung bean | and dry seed |
| sweet lupin | rice bean | Morama bean, dry seed |
| white lupin | urd bean | Pea (*Pisum* spp.), edible podded |
| white sweet lupin | yardlong bean | dwarf pea |
| yellow lupin | Bean (Vigna spp.), succulent shelled | green pea |
| Bean (*Phaseolus* spp.), edible podded | blackeyed pea | snap pea |
| French bean | catjang bean | snow pea |
| garden bean | cowpea | sugar snap pea |
| green bean | crowder pea | Pea (*Pisum* spp.), succulent shelled |
| kidney bean | moth bean | English pea |
| navy bean | southern pea | garden pea |
| scarlet runner bean | Bean (*Vigna* spp.), dry seed | green pea |
| snap bean | adzuki bean | Pea (*Pisum* spp.), dry seed |
| wax bean | asparagus bean | dry pea |
| Bean (*Phaseolus* spp.), succulent shelled | blackeyed pea | field pea |
| lima bean | catjang bean | garden pea |
| scarlet runner bean | Chinese longbean | yellow pea |
| wax bean | cowpea | wrinkled pea |
| Bean (*Phaseolus* spp.), dry seed | crowder pea | marrowfat pea |
| black bean | moth bean | green pea |
| cranberry bean | mung bean | Pigeon pea, edible podded, succulent |
| dry bean | rice bean | shelled and dry seed |
| field bean | southern pea | Sword bean, edible podded and dry seed |
| French bean | urd bean | Vegetable soybean (edamame), edible |
| garden bean | yardlong bean | podded and succulent shelled |
| great northern bean | Broad bean (fava bean), succulent | Velvetbean, edible podded, succulent |
| green bean | shelled and dry seed | shelled and dry seed |
| kidney bean | Chickpea (garbanzo), edible podded, | Winged pea, edible podded and dry seed |
| lima bean | succulent shelled, and dry seed | Cultivars, varieties, and/or hybrids of these |
| navy bean | Goa bean (asparagus pea and winged | commodities |
| pink bean | bean), edible podded, succulent | Plant parts of any legume vegetable listed |
| pinto bean | shelled, and dry seed | in Crop Group 6-22 that will be used as |
| red bean | Grass pea, edible podded and dry seed | animal feed. |
| scarlet runner bean | Guar bean, edible podded and dry seed | |
| tepary bean | | |
| yellow bean | | |

*continued...*

## 7.12 Legume Vegetable Group – Crop Group 6-22, except Soybean (See Soybean) and Forage and Hay of Legume Vegetable Group – Crop Group 7-22 *(continued)*

| Target Diseases | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.16 – 0.64 | 0.004 -0.015 | 0.014 – 0.056 |
| **Field Beans, Kidney Beans, Navy Beans, Pinto Beans, and Lentils**<br>Pythium damping-off when disease pressure is expected to be low in combination with other seed treatment products labeled for these crops | 0.085 – 0.32 | 0.002 – 0.008 | 0.0074 – 0.028 |
| Early-season Phytophthora | 0.64 | 0.015 | 0.056 |
| **Peas**<br>Systemic downy mildew | 1.28 | 0.031 | 0.11 |
| **Additional Information** | | | |
| • *based on an average seed weight of 1,250 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.25 lb ai/A/year (0.062 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.13 Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay) Crop Group 18

| Crops | |
|---|---|
| Alfalfa<br>Bean, velvet<br>Clover<br>Kudzu<br>Lespedeza<br>Lupin | Sainfoin<br>Trefoil<br>Vetch<br>Vetch, crown<br>Vetch, milk |

| Target Diseases | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off<br>Early-season Phytophthora<br>**Alfalfa**<br>Suppression of early-season downy mildew | 0.64 | 0.015 | 0.00033 |
| **Additional Information** | | | |
| • *based on an average seed weight of 210,000 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0047 lb ai/A/year (0.031 lb ai/100 lb seed/year) of mefenoxam or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.14 Peanut

| Crop | | | |
|---|---|---|---|
| Peanut | | | |
| **Target Disease** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium seed rot and damping-off | 0.16 – 0.64 | 0.004 – 0.015 | 0.0205 – 0.0822 |
| **Additional Information** | | | |
| • *based on an average seed weight of 850 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.071 lb ai/A/year (0.031 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.15 Rapeseed Crop Subgroup 20A

| Crops | | |
|---|---|---|
| Borage<br>Crambe<br>Cuphea<br>Echium<br>Flax seed<br>Gold of pleasure | Hare's ear mustard<br>Lesquerella<br>Lunaria<br>Meadowfoam<br>Milkweed<br>Mustard seed | Oil radish<br>Poppy seed<br>Rapeseed (canola)<br>Sesame<br>Sweet rocket<br>Cultivars, varieties, and/or hybrids of these |

| **Target Disease** | **Use Rate** | | |
|---|---|---|---|
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off | 0.32 | 0.0008 | 0.00035 |
| **Additional Information** | | | |
| • *based on an average seed weight of 100,000 seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0013 lb ai/A/year (0.015 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.16 Root and Tuber Vegetables Crop Group 1, except Potato

| Crops | |
|---|---|
| Arracacha | Horseradish |
| Arrowroot | Leren |
| Artichoke, Chinese | Parsley, turnip-rooted |
| Artichoke, Jerusalem | Parsnip |
| Beet, garden | Radish |
| Beet, sugar | Radish, oriental (daikon) |
| Burdock, Edible | Rutabaga Salsify (oyster plant) |
| Canna, Edible (Queensland arrowroot) | Salsify, black |
| Carrot | Salsify, Spanish |
| Cassava, Bitter & Sweet | Skirret Sweet Potato |
| Celeriac (celery root) | Tanier (cocoyam) |
| Chayote (root) | Turmeric |
| Chervil, turnip-rooted | Turnip |
| Chicory | Yam Bean (jicama, manoic pea) |
| Chufa | Yam, True |
| Dasheen (Taro) | |
| Ginger | |
| Ginseng | |

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.085 – 0.64 | 0.002 – 0.015 | 0.00003 – 0.00023 |

**Additional Information**

- *based on an average seed weight of 300,000 seeds/lb

**USE RESTRICTIONS**

- **DO NOT** Apply Apron XL to potatoes.
- **Maximum Annual Application Rate: DO NOT** apply more than 0.020 lb ai/A/year (0.062 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment.

**Resistance Management:**

- Refer to **Section 3.1**.

## 7.17 Soybean

| Crop | | | |
|---|---|---|---|
| Soybean | | | |
| Target Diseases | Use Rate | | |
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off and early-season Phytophthora | 0.16 – 0.64 | 0.004 – 0.015 | 0.006 – 0.023 |
| **Additional Information** | | | |
| • *based on an average seed weight of 3,000 soybean seeds/lb<br>• For best early-season Phytophthora protection, use the higher specified rate.<br>• For a greater spectrum of seedling disease protection of soybean, combine Apron XL with azoxystrobin (e.g., Dynasty), fludioxonil (e.g., Maxim 4FS), picarbutrazox (Vayantis), or sedaxane (e.g., Vibrance). | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.052 lb ai/A/year (0.031 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.18 Sunflower

| Crop | | | |
|---|---|---|---|
| Sunflower | | | |
| Target Disease | Use Rate | | |
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Systemic downy mildew | 1.28 | 0.031 | 0.031 |
| **Additional Information** | | | |
| • *based on an average seed weight of 4,500 sunflower seeds/lb | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0025 lb ai/A/year (0.062 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 7.19 Turfgrass

| Crops | | | |
|---|---|---|---|
| Turfgrasses (All) | | | |
| **Target Disease** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off | 0.64 – 1.28 | 0.015 – 0.031 | 0.00003 – 0.00006 |
| **Additional Information** | | | |
| • *based on an average seed weight of 2,200,000 seeds/lb<br>• For use on golf courses, home lawns, reclamation and erosion control projects.<br>• For long-term protection from Pythium in areas when using seed treated with Apron XL, make an application of Subdue MAXX® (EPA Reg. No. 100-796) 7-10 days after seeding. | | | |
| **USE RESTRICTIONS** | | | |
| • **Maximum Annual Application Rate: DO NOT** apply more than 0.0161 lb ai/A/year (0.062 lb ai/100 lb seed/year) of mefenoxam- or metalaxyl-containing products as a seed treatment. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

# 8.0 SEED CONTAINER LABEL REQUIREMENTS – EXPORT USE

THE FEDERAL SEED ACT REQUIRES THAT CONTAINERS OF SEEDS TREATED WITH APRON XL MUST BE LABELED WITH THE FOLLOWING STATEMENTS:

- This seed has been treated with mefenoxam fungicide.
- **DO NOT** use for feed, food, or oil purposes.

THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON CONTAINERS OF SEEDS TREATED FOR EXPORT USE WITH APRON XL:

- **TREATED SEED FOR EXPORT ONLY – NOT FOR DOMESTIC SALE OR USE IN THE UNITED STATES.**

**EXPORTER IS RESPONSIBLE FOR VERIFYING SEED CONTAINER LABEL REQUIREMENTS IN COUNTRY OF DESTINATION OR USE. MAXIMUM USE RATES SPECIFIED ON THIS LABEL MUST NOT BE EXCEEDED.**

# 9.0 SEED TREATMENT DIRECTIONS – EXPORT USE

## 9.1 Brassica Head and Stem Vegetable Crop Group 5-16

| Crops | | | |
|---|---|---|---|
| Broccoli<br>Brussels sprouts<br>Cabbage<br>Cabbage, Chinese (napa) | Cauliflower<br>Cultivars, varieties, and hybrids of these commodities | | |
| **Target Disease** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.00035 – 0.0007 |
| **Additional Information** | | | |
| • *based on an average seed weight of 100,000 seeds/lb<br>• Verify the actual registered rate in country of destination or use. | | | |
| **USE RESTRICTIONS** | | | |
| • Maximum use rates specified on this label must not be exceeded. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 9.2 Bulb Vegetables Crop Group 3-07

| Crops | | | |
|---|---|---|---|
| Chive, fresh leaves<br>Chive, Chinese, fresh leaves<br>Daylily, bulb<br>Elegans hosta<br>Fritillaria, bulb<br>Fritillaria, leaves<br>Garlic, bulb<br>Garlic, great-headed, bulb<br>Garlic, Serpent, bulb<br>Kurrat<br>Lady's leek<br>Leek<br>Leek, wild<br>Lily, bulb | Onion, Beltsville bunching<br>Onion, bulb<br>Onion, Chinese, bulb<br>Onion, fresh<br>Onion, green<br>Onion, macrostem<br>Onion, pearl<br>Onion, potato, bulb<br>Onion, tree, tops<br>Onion, Welsh, tops<br>Shallot, bulb<br>Shallot, fresh leaves<br>Cultivars, varieties, and/or hybrids of these | | |
| **Target Disease** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.00035 – 0.0007 |
| **Additional Information** | | | |
| • *based on an average seed weight of 100,000 seeds/lb<br>• Verify the actual registered rate in country of destination or use. | | | |

*continued...*

## 9.2 Bulb Vegetables Crop Group 3-07 *(continued)*

| USE RESTRICTIONS |
|---|
| • Maximum use rates specified on this label must not be exceeded. |
| **Resistance Management:**<br>• Refer to **Section 3.1**. |

## 9.3 Cereal Grains

### 9.3.1 CORN

| Crops | | | |
|---|---|---|---|
| Field Corn<br>Sweet Corn<br>Popcorn | | | |
| **Target Diseases** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.019 – 0.039 |
| Systemic downy mildew | 2.2 | 0.053 | 0.133 |
| **Additional Information** | | | |
| • *based on an average seed weight of 1,800 seeds/lb<br>• Verify the actual registered rate in country of destination or use. | | | |
| **USE RESTRICTIONS** | | | |
| • Maximum use rates specified on this label must not be exceeded. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

### 9.3.2 MILLET

| Crops | | | |
|---|---|---|---|
| Millet, Pearl<br>Millet, Proso | | | |
| **Target Diseases** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.0023 – 0.0047 |
| Systemic downy mildew | 2.4 | 0.058 | 0.017 |
| **Additional Information** | | | |
| • *based on an average seed weight of 15,000 seeds/lb<br>• Verify the actual registered rate in country of destination or use. | | | |
| **USE RESTRICTIONS** | | | |
| • Maximum use rates specified on this label must not be exceeded. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

### 9.3.3 SORGHUM

| Crop | | | |
|---|---|---|---|
| Sorghum | | | |
| **Target Diseases** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.0024 – 0.0048 |
| Systemic downy mildew | 2.2 | 0.053 | 0.0165 |
| **Additional Information** | | | |
| • *based on an average seed weight of 14,500 sorghum seeds/lb<br>• Only treat high-quality sorghum seed (90% germ and above) with Apron XL.<br>• Verify the actual registered rate in country of destination or use. | | | |
| **USE RESTRICTIONS** | | | |
| • Maximum use rates specified on this label must not be exceeded. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 9.4 Cucurbit Vegetables Crop Group 9

| Crops | | |
|---|---|---|
| Chayote (fruit)<br>Chinese waxgourd (Chinese preserving melon)<br>Citron melon<br>Cucumber<br>Gherkin<br>Gourd, edible (*Lagenaria* spp.)<br>Hyotan<br>Cucuzza<br>Gourd, edible (*Luffa acutangula, L. cylindrical*)<br>Hechima<br>Chinese okra<br>*Momordica* spp.<br>Balsam apple<br>Balsam pear<br>Bitter melon<br>Chinese cucumber | Muskmelon (hybrids and/or cultivars of *Cucumis melo*)<br>Cantaloupe<br>Casaba<br>Crenshaw melon<br>Golden pershaw melon<br>Honeydew melon<br>Honey balls<br>Mango melon<br>Persian melon<br>Pineapple melon<br>Santa Claus melon<br>Snake melon<br>True cantaloupe<br>Pumpkin | Squash, summer (*Cucurbita* pepo var. *melopepo*)<br>Crookneck squash<br>Scallop squash<br>Straightneck squash<br>Vegetable marrow<br>Zucchini<br>Squash, winter (*Cucurbita maxima, C. moschata*)<br>Butternut squash<br>Calabaza<br>Hubbard squash<br>Squash, winter (*Cucurbita mixta, C. pepo*):<br>Acorn squash<br>Spaghetti squash<br>Watermelon (hybrids and/or varieties of *Citrullus lanatus*) |

| **Target Disease** | **Use Rate** | | |
|---|---|---|---|
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off | 0.32 –– 0.64 | 0.008 – 0.015 | 0.0023 – 0.0047 |
| **Additional Information** | | | |
| • *based on an average seed weight of 15,000 seeds/lb<br>• Verify the actual registered rate in country of destination or use. | | | |

*continued...*

## 9.4 Cucurbit Vegetables Crop Group 9 *(continued)*

| USE RESTRICTIONS |
|---|
| • Maximum use rates specified on this label must not be exceeded. |
| **Resistance Management:**<br>• Refer to **Section 3.1**. |

## 9.5 Fruiting Vegetable Crop Group 8-10

| Crops | | |
|---|---|---|
| African eggplant<br>Bush tomato<br>Cocona<br>Currant tomato<br>Eggplant<br>Garden huckleberry<br>Goji berry | Groundcherry<br>Martynia<br>Naranjilla<br>Okra<br>Pea eggplant<br>Pepino<br>Pepper, bell | Pepper, non-bell<br>Roselle<br>Scarlet eggplant<br>Sunberry<br>Tomatillo<br>Tomato<br>Tree Tomato<br>Cultivars, varieties and/or hybrids of these |

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.00023 – 0.00047 |

| Additional Information |
|---|
| • *based on an average seed weight of 150,000 seeds/lb<br>• Verify the actual registered rate in country of destination or use. |
| **USE RESTRICTIONS** |
| • Maximum use rates specified on this label must not be exceeded. |
| **Resistance Management:**<br>• Refer to **Section 3.1**. |

## 9.6 Leaf Petiole Vegetable Crop Subgroup 22B

| Crops | |
|---|---|
| Cardoon | Fuki |
| Celery | Kohlrabi |
| Celery, Chinese | Rhubarb |
| Celtuce | Udo |
| Fennel, Florence (finocchio) | Zuiki |
| | Cultivars, varieties, and hybrids of the commodities in crop subgroup 22B |

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.000035 – 0.00007 |

**Additional Information**

- *based on an average seed weight of 1,000,000 seeds/lb
- Verify the actual registered rate in country of destination or use.

**USE RESTRICTIONS**

- Maximum use rates specified on this label must not be exceeded.

**Resistance Management:**
- Refer to **Section 3.1**.

## 9.7 Leafy Vegetable Crop Group 4-16

| Crops | | |
|---|---|---|
| Amaranth, Chinese | Corn Salad | Mizuna |
| Amaranth, Leafy | Cosmos | Mustard greens |
| Arugula (Roquette) | Cress, garden | Orach |
| Aster, Indian | Cress, upland (yellow rocket, winter cress) | Parsley, fresh leaves |
| Blackjack | Dandelion, leaves | Plantain, Buckhorn |
| Broccoli, Chinese (gai lon) | Dang-gwi, leaves | Primrose, English |
| Broccoli Raab (rapini) | Dillweed | Purslane, Garden |
| Cabbage, Abyssinian | Dock (sorrel) | Purslane, Winter |
| Cabbage, Chinese (bok choy) | Dol-nam-mul | Radicchio (red chicory) |
| Cabbage, seakale | Ebolo | Radish, leaves |
| Cat's Whiskers | Endive (escarole) | Rape Greens |
| Cham-chwi | Escarole | Rocket, wild |
| Cham-na-mul | Fameflower | Shepherd's Purse |
| Chervil, fresh leaves | Feather Cockscomb | Spinach |
| Chipilin | Good King Henry | Spinach, Malabar |
| Chrysanthemum, garland | Hanover Salad | Spinach, New Zealand |
| Cilantro, fresh leaves | Huauzontle | Spinach, Tanier |
| Collards | Jute, leaves | Swiss chard |
| | Kale | Turnip Greens |
| | Lettuce, Bitter | Violet, Chinese, leaves |
| | Lettuce, Head | Cultivars, varieties, and hybrids of these commodities |
| | Lettuce, Leaf | |
| | Maca, leaves | |

*continued...*

## 9.7 Leafy Vegetable Crop Group 4-16 *(continued)*

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.00009 – 0.00018 |
| **Additional Information** | | | |
| • *based on an average seed weight of 400,000 seeds/lb<br>• Verify the actual registered rate in country of destination or use. | | | |
| **USE RESTRICTIONS** | | | |
| • Maximum use rates specified on this label must not be exceeded. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 9.8 Peas

| Crops | | | |
|---|---|---|---|
| Pea (*Pisum* spp.)<br>Dwarf Pea<br>Edible-pod Pea<br>English Pea<br>Field Pea<br>Garden Pea<br>Green Pea<br>Snow Pea<br>Sugar Snap Pea | | | |
| **Target Diseases** | **Use Rate** | | |
| | **fl oz/100 lb of seed** | **lb ai/100 lb seed** | **mg ai/seed*** |
| Pythium damping-off and early-season Phytophthora | 0.64 – 1.28 | 0.015 – 0.031 | 0.056 – 0.112 |
| Downy mildew | 1.28 | 0.031 | 0.112 |
| **Additional Information** | | | |
| • *based on an average seed weight of 1,250 seeds/lb<br>• Verify the actual registered rate in country of destination or use. | | | |
| **USE RESTRICTIONS** | | | |
| • Maximum use rates specified on this label must not be exceeded. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 9.9 Root and Tuber Vegetables Crop Group 1, except Potato

| Crops | |
|---|---|
| Arracacha | Horseradish |
| Arrowroot | Leren |
| Artichoke, Chinese | Parsley, turnip-rooted |
| Artichoke, Jerusalem | Parsnip |
| Beet, garden | Radish |
| Beet, sugar | Radish, oriental (daikon) |
| Burdock, Edible | Rutabaga |
| Canna, Edible (Queensland arrowroot) | Salsify (oyster plant) |
| Carrot | Salsify, black |
| Cassava, Bitter & Sweet | Salsify, Spanish |
| Celeriac (celery root) | Skirret |
| Chayote (root) | Sweet Potato |
| Chervil, turnip-rooted | Tanier (cocoyam) |
| Chicory | Turmeric |
| Chufa | Turnip |
| Dasheen (Taro) | Yam Bean (jicama, manoic pea) |
| Ginger | Yam, True |
| Ginseng | |

| Target Disease | Use Rate | | |
|---|---|---|---|
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Pythium damping-off | 0.32 – 0.64 | 0.008 – 0.015 | 0.00012 – 0.00023 |

**Additional Information**

- *based on an average seed weight of 300,000 seeds/lb
- Verify the actual registered rate in country of destination or use.

**USE RESTRICTIONS**

- Maximum use rates specified on this label must not be exceeded.
- **DO NOT** Apply Apron XL to potatoes.

**Resistance Management:**

- Refer to **Section 3.1**.

## 9.10 Sunflower

| Crop | | | |
|---|---|---|---|
| Sunflower | | | |
| Target Disease | Use Rate | | |
| | fl oz/100 lb of seed | lb ai/100 lb seed | mg ai/seed* |
| Systemic downy mildew | 3.75 – 4.45 | 0.090 – 0.107 | 0.091 – 0.108 |
| **Additional Use Directions** | | | |
| • *based on an average seed weight of 4,500 sunflower seeds/lb<br>• Verify the actual registered rate in country of destination or use. | | | |
| **USE RESTRICTIONS** | | | |
| • Maximum use rates specified on this label must not be exceeded. | | | |
| **Resistance Management:**<br>• Refer to **Section 3.1**. | | | |

## 10.0 STORAGE AND DISPOSAL

# STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

### Pesticide Storage

Store in the original container and only in a cool, dry, secure place.

### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Open dumping is prohibited.

### Container Handling (less than or equal to 5 gallons)

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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 by other procedures approved by state and local authorities.

*continued...*

### Container Handling (greater than 5 gallons)

Refillable container. 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 person refilling. To clean 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### Container Handling (greater than 5 gallons)

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 by other procedures approved by state and local authorities.

For minor spills, leaks, etc., follow all precautions and restrictions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

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

## 11.0 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 must be followed carefully. It is impossible to eliminate all risks inherently 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 SYNGENTA CROP PROTECTION, LLC or Seller. To the extent consistent with applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA 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, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent consistent with applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent consistent with applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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For non-emergency (e.g., current product information) call
Syngenta Crop Protection at 1-866-796-4368.

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

**SCP 799B-L1H 0623**
**4186796**

MEFENOXAM | GROUP 4 | FUNGICIDE

# Apron XL®

## Fungicide

A seed treatment product for protection against *Pythium* and *Phytophthora* causing damping-off, seed rot, and systemic downy mildew diseases of certain crops

| Active Ingredients: | |
|---|---|
| Mefenoxam* . . . . . | 33.3% |
| Other Ingredients: | 66.7% |
| Total: | 100.0% |

*CAS Nos. 70630-17-0 and 69516-34-3

Apron XL is a flowable concentrate for seed treatment containing 3.0 pounds of mefenoxam per gallon.

See additional precautionary statements and directions for use inside booklet.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**EPA Reg. No. 100-799**
**EPA Est. 100-NE-001**

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Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

**SCP 799B-L1H 0623**
**4186796**

# 1 gallon

**Net Contents**

(01) 0 07 02941 63873 0

## 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.)

**FIRST AID** **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. **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 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**HOTLINE NUMBER:** For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call **1-800-888-8372**.

## Precautionary Statements

**Hazards to Humans and Domestic Animals**

**WARNING/AVISO**

Causes substantial but temporary eye irritation. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. 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.

**Environmental Hazards:** Do not contaminate water when disposing of equipment washwater or rinsate. Treated seed exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting, including in row ends.

**Groundwater Advisory:** Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

**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.

## Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in the original container and only in a cool, dry, secure place.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Open dumping is prohibited.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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 by other procedures approved by state and local authorities.

For minor spills, leaks, etc., follow all precautions and restrictions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

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

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