

100-1243

6-1-2006

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Group 4 11 Fungicides

**Quadris® Gold**

**Fungicide**

A co-pack of azoxystrobin and mefenoxam for broad-spectrum disease control in potatoes.

Quadris® Flowable

Active Ingredient:

Azoxystrobin: methyl(*E*)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate\* ..... 22.9%

Inert Ingredients: ..... 77.1%

Total: ..... 100.0%

Contains 2.08 lbs. of active ingredient per gallon.

\*IUPAC

120 fl. oz.

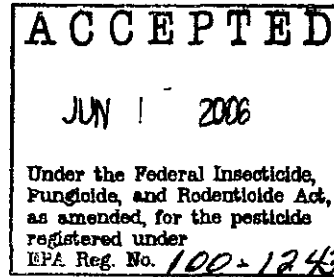
Ridomil Gold® EC

Active Ingredients:

Mefenoxam\* ..... 49.0%

Other Ingredients: ..... 51.0%

Total: ..... 100.0%



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

Contains 4 lbs. active ingredient per gallon.

120 fl. oz.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1243

EPA Est. 62171-MS-001

SCP

240 fl. oz. [Product ID 27133]

Total Net Contents

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<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b>HOT LINE NUMBER</b>            For 24 Hour Medical Emergency Assistance (Human or Animal) or            Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),            Call  <b>1-800-888-8372</b></p>	

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

**Personal Protective Equipment (PPE)**

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

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants

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- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **Engineering Control Statements**

When handlers use closed systems, enclosed cabs, or aircraft 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.

#### **User Safety Recommendations**

##### **Users should:**

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

### **Environmental Hazards**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

Notify state and/or federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

Azoxystrobin can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to groundwater under certain conditions as a result of agricultural use. Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of agricultural use.

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Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. This product is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas.

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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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**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 should 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, Inc. or Seller. All such risks shall be assumed by Buyer and User, and 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. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **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 Limitations 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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## DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Quadris Gold is extremely phytotoxic to certain apple varieties.

**AVOID SPRAY DRIFT.** Extreme care must be used to prevent injury to apple trees (and apple fruit).

**DO NOT** spray Quadris Gold where spray drift may reach apples.

**AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**

### 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.

Worker entry into treated areas is allowed immediately (0 hours) after application.

This product is so-l-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.

**FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.**

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**GENERAL INFORMATION**

Quadris Gold is a broad spectrum preventative fungicide with systemic properties for control of many soilborne plant diseases. All applications should be made according to the use directions that follow.

Quadris Gold can provide control of many soilborne diseases when applied as an in-furrow application at planting. In-furrow applications will provide control of pre- or postemergence damping off and diseases that infect plants at the soil-plant interface.

**Chemigation**

Do not apply this product through any type of irrigation equipment.

**GENERAL USE PRECAUTIONS**

**Rotational Crop Restrictions**

Rotational Crop	Planting Time From Last Quadris Gold Application
Brassica, Head and Stem subgroup Carrot Cotton Cucurbits Eggplant Bulb Vegetables Legume Vegetables Peanuts Potatoes Strawberries Sugar beets Tomatoes Soybeans	0 Days
Cereal Grains (other than Corn)	14 days
Leafy Vegetables (Except Brassica) Brassica, Leafy Greens subgroup; Vegetables, Root subgroup; Vegetables, Tuberous and corm subgroup; and Vegetables, Leaves of Root and tuber group.	36 Days
Corn	9 months
All Other Rotated Food or Feed Crops	12 months

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## RESISTANCE MANAGEMENT

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Group	4	11	Fungicides
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Quadris Gold Fungicide is a mixture of a Group 4 (mefenoxam) and a Group 11 (azoxystrobin) fungicide: Quadris Gold has two modes of action: (1) Phenylamides-affects RNA Synthesis [Group 4], and (2) inhibitor of the Qo (quinone outside) site within the electron transport system (QoI) as well as disrupting membrane synthesis by blocking demethylation [Group 11]. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or tank-mixing with products having different modes of action or limiting the total number of applications per season. Syngenta Crop Protection encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.

Quadris Gold should not be alternated or tank mixed with any fungicide to which resistance has already developed.

## INTEGRATED PEST (DISEASE) MANAGEMENT

Quadris Gold should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. The **SPECIFIC USE DIRECTIONS** section in this label identifies specific IPM recommendations for each crop. Consult your local agricultural authorities for additional IPM strategies established for your area.

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## APPLICATION PROCEDURES

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Apply Quadris Gold as an in-furrow spray in 3-15 gals. of water per acre at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered. Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of *Pythium* problems, or if minimum/low till programs are in place. Quadris Gold may be applied with all types of spray equipment commonly used for making in-furrow applications. Proper adjustments and calibration of spraying equipment is essential for good disease control.



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## MIXING/SPRAYING

To prepare spray solution, partially fill the spray tank with clean water and begin agitation. Invert the Quadris Gold jug several times to suspend any sediment and open the container. Once the container is opened, the entire contents must be added to the spray tank, allowing time for good dispersion. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the spraying operations. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Sprayers should be thoroughly cleaned immediately after application.

Quadris Gold is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products. If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or your local or state agricultural authorities for compatibility information. Conduct a physical compatibility test as described in the paragraph below before making a field application.

Do not combine Quadris Gold in the spray tank with pesticides, surfactants or fertilizers, unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective and non-injurious under your conditions of use. If physical compatibility is unknown, the following procedure should be followed: Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least twenty (20) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible.

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**SPECIFIC USE DIRECTIONS**

Crop	Target Diseases	Use Rate fl. oz./1000 ft of row	Remarks
Potato	Rhizoctonia canker <i>(Rhizoctonia solani)</i>  Pythium seedling blight and root rot <i>(Pythium spp)</i>  Black dot <i>(Colletotrichum coccodes)</i>  Pink rot <i>(Phytophthora erythroseptica)</i>  Leak <i>(Pythium spp.)</i>	0.82	<p><b>Integrated Pest (Disease) Management:</b> Quadris Gold should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, plant residue management, crop rotation and proper water management.</p> <p>Use the entire contents of the Quadris Gold container once it is opened. See Table 2.</p> <p>Apply Quadris Gold as an in-furrow spray in 3-15 gals. of water per acre at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered.</p> <p>Do not apply more than 1.5 lb. a.i. of azoxystrobin-containing products per acre per season. Do not apply more than 0.5 lb. a.i. of mefenoxam-containing products per acre per season.</p>

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**Table 1. Amount of Quadris Gold (fluid ounces) per Acre Based on Row Spacing**

Rate per 1000 Row Feet		22" Rows	30" Rows	32" Rows	34" Rows	36" Rows	38" Rows	40" Rows
Fluid ounces of Product	Ounces of active ingredient (mefenoxam, azoxystrobin)	Product per Acre (fluid ounces)						
0.82	0.4, 0.2	19.5	14.3	13.4	12.6	11.9	11.3	10.7

40" = 13,068 row ft., 38" = 13,754 row ft., 36" = 14,520 row ft., 34" = 15,374 row ft., 32" = 16,315 row ft., 30" = 17,424 row ft., and 22" = 23,760 row ft./Acre

**Table 2. Number of Acres per Jug (240 fluid ounces) Based on Row Spacing**

Use Rate	22" Rows	30" Rows	32" Rows	34" Rows	36" Rows	38" Rows	40" Rows
	Acres Treated						
0.82 fl. oz./1000 row ft.	12	17	18	19	20	21	22

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## **STORAGE AND DISPOSAL**

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

### **Pesticide Storage**

Store in original containers only. Store in a cool place. Protect from excessive heat. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

### **Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### **Container Disposal**

#### **Plastic Containers**

Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by alternative methods allowed by State and local authorities.

#### **Returnable Refillable Container**

*If Quadris Gold is packaged in a returnable refillable container, then, after use, do not rinse container. The contents of this container cannot be completely removed by cleaning. Return container intact to point of purchase.*

This container must only be refilled with Quadris Gold. Refilling with materials other than Quadris Gold will result in contamination and may weaken container. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** Before refilling, inspect thoroughly for damage such as cracks, punctures, abrasions, and damaged or worn threads on closure devices. Check for leaks after refilling and before transport. Do not refill or transport a damaged or leaking container.

**For Bulk and Minibulk Containers:** Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

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

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For non-emergency (e.g., current product information) call  
Syngenta Crop Protection at 1-800-334-9481

Manufactured for:  
Syngenta Crop Protection, Inc.  
Greensboro, North Carolina 27409  
[www.syngenta-us.com](http://www.syngenta-us.com)

SCP

QUA GOL 1243 MAY06 AMEND - df - 5/8/06

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Group 4 11 Fungicides

BASE LABEL

**Quadris® Gold**

**Fungicide**

A co-pack of azoxystrobin and mefenoxam for broad-spectrum disease control in potatoes.

**Quadris® Flowable**

**Active Ingredient:**

Azoxystrobin: methyl(*E*)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate\* ..... 22.9%

**Inert Ingredients:** ..... 77.1%

**Total:** ..... 100.0%

Contains 2.08 lbs. of active ingredient per gallon.

\*IUPAC

120 fl. oz.

**Ridomil Gold® EC**

**Active Ingredients:**

Mefenoxam\* ..... 49.0%

**Other Ingredients:** ..... 51.0%

**Total:** ..... 100.0%

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

Contains 4 lbs. active ingredient per gallon.

120 fl. oz.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1243

EPA Est. 62171-MS-001

SCP

240 fl. oz. [Product ID 27133]

Total Net Contents

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<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b>HOT LINE NUMBER</b>            For 24 Hour Medical Emergency Assistance (Human or Animal) or            Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),            Call  <b>1-800-888-8372</b></p>	

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

**Environmental Hazards**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

Notify state and/or federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

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Azoxystrobin can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to groundwater under certain conditions as a result of agricultural use. Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of agricultural use.

Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. This product is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas.

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## **STORAGE AND DISPOSAL**

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

### **Pesticide Storage**

Store in original containers only. Store in a cool place. Protect from excessive heat. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

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### **Container Disposal**

#### **Plastic Containers**

Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by alternative methods allowed by State and local authorities.

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

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Syngenta Crop Protection at 1-800-334-9481

Manufactured for:  
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