

# ORONDIS® GOLD B 480SL

FUNGICIDE

SOLUTION

COMMERCIAL - AGRICULTURAL

For the control or suppression of certain diseases caused by the Oomycete class of fungi in Cucumbers (Field), Ginseng and Potatoes.

**ACTIVE INGREDIENT:**

Metalaxyl-M and S-isomer ..... 480 g/L

**READ THE LABEL AND PAMPHLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**WARNING**



**POISON**

**EYE IRRITANT, SKIN IRRITANT**

Harmful if swallowed. Avoid inhalation of spray mist. Avoid contact with skin and eyes. Avoid contamination of food and feed and domestic or irrigation water supplies, lakes, streams and ponds.

REGISTRATION NO.: **32937**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 10 L**

**Syngenta Canada Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario N1G 4Z3  
Telephone: 1-877-964-3682

LABEL

## 1.0 NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

## 2.0 FIRST AID

**IN CASE OF POISONING**, call a physician or poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed**, call a poison control centre 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 centre 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 centre or doctor for treatment advice.

**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 centre or doctor for treatment advice.

**If inhaled**, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

## 3.0 TOXICOLOGICAL INFORMATION

No specific antidote is known. Treat symptomatically. Contact with eyes may require specialized ophthalmologic attention.

## 4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Harmful or Fatal if swallowed. Causes eye irritation. DO NOT get in eyes. May irritate the skin. Avoid contact with skin.

Do not get in eyes, on skin or on clothing.

Do not apply in such a way that this product will contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.

Do not enter or allow worker entry into treated areas for 12 hours following application.

Do not use or store near heat or open flame.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

## **5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Wear chemical resistant gloves, and goggles or a face shield, coveralls over long-sleeved shirt, long pants, socks and chemical resistant footwear during mixing/loading/application and during clean up and repair activities. Change clothing after use. Wash with soap and water after use.

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.

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.

All users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Do not eat, drink or smoke while mixing or during application.

## **6.0 ENVIRONMENTAL PRECAUTIONS**

Avoid application when weather conditions favour drift from treated areas.

Do not apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.

Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

The use of this product may result in contamination of groundwater, particularly in areas where soils are permeable (e.g. sandy soil) or the water table is shallow. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. compacted or fine-textured soils such as clay). In order to minimize risk to the environment from the use of this product, do not use on coarse textured gravelly soils, soils with less than 2% organic matter, or in areas where the water table may be high.

Avoid application of this product when heavy rain is forecast.

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

## **7.0 STORAGE**

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals. To prevent contamination store this product away from food or feed.

## **8.0 DISPOSAL**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### **For Recyclable Containers**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

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***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

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PAMPHLET

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## 9.0 PRODUCT INFORMATION

ORONDIS® GOLD B 480SL Fungicide is a systemic fungicide for use in a preventative program for the control of:

*Pythium* damping-off in field cucumbers,  
*Pythium* damping-off and *Phytophthora* root rot in ginseng,  
Suppression of pink rot and *Pythium* leak in potatoes

ORONDIS GOLD B 480SL Fungicide is readily absorbed by the roots and provides protection against attack from these diseases under varied weather conditions.

### 9.1 Use Limitations

Experience has shown that strains of fungus resistant to metalaxyl-M and S-isomer may develop. Failure to control the disease will result in crop damage and/or yield losses. Since the occurrence of the resistance cannot be foreseen, Syngenta Canada Inc. accepts no responsibility for any loss of, or damage to, crops resulting from the failure of ORONDIS GOLD B 480SL Fungicide to control the resistant fungus strains. If disease appears in a treated field, consult your local government extension specialist immediately.

DO NOT APPLY BY AIR.

**DO NOT USE ORONDIS GOLD B 480SL Fungicide AS A FOLIAR APPLICATION UNLESS SPECIFIED ON THIS LABEL.**

**Do not dip plants or roots, spray bare roots, or use a transplant water treatment with solutions containing ORONDIS GOLD B 480SL Fungicide.**

## 10.0 DIRECTIONS FOR USE

### 10.1 General Information

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682 for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

### 10.2 Ground Application

**Field Sprayer Application:** **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

### 10.3 Buffer zones

Use of the following spray methods or equipment **DOES NOT** require a buffer zone: hand-held or backpack sprayer, spot treatment, inter-row hooded sprayer, soil drench and soil incorporation.

## 11.0 MINOR USES

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

### 11.1 Ginseng

Control of *Pythium* Damping-Off and *Phytophthora* Root Rot

For the control of *Pythium* damping-off in the seedling year apply 650 mL of product per hectare just prior to emergence of the seedlings. For the control of *Phytophthora* root rot in subsequent years apply 650 mL of product per hectare as a soil broadcast application in the spring prior to the emergence of the ginseng. Apply in a minimum of 2500 L of water per hectare. Do not apply ORONDIS GOLD B 480SL Fungicide more than once a year.

NOTE: DO NOT USE ORONDIS GOLD B 480SL Fungicide DURING THE GROWING SEASON. Use up to 2 applications of ORONDIS GOLD B 480SL during the growing season following the directions on the ORONDIS GOLD B 480SL label. Do not apply products containing metalaxyl or metalaxyl-M and S-isomer within 9 days prior to harvesting ginseng. Do not make more than 3 applications in total per year of products containing either metalaxyl or metalaxyl-M and S-isomer.

## 11.2 Cucumbers (Field):

### Control of *Pythium* Damping-Off

For the control of *Pythium* damping-off in cucumbers, apply 2.25 to 4.5 mL of ORONDIS GOLD B 480SL Fungicide per 100 m of row as a 18 cm band, centred over the row. Apply immediately after seeding or just before transplanting. ORONDIS GOLD B 480SL Fungicide should be incorporated mechanically into the top 5 cm of soil before transplanting, or moved into the seed zone shortly after seeding with 15-25 mm of rainfall or irrigation. Use the high rate when disease pressure is high. Apply in a minimum of 200 L water per hectare. Apply ORONDIS GOLD B 480SL Fungicide to cucumbers only once per year with ground application equipment only.

ORONDIS GOLD B 480SL Fungicide must only be applied as a spray to the soil surface. Do not use ORONDIS GOLD B 480SL Fungicide for disease control in greenhouse crops. Do not apply over the top of transplants, as a drench, or dip transplants in solutions containing ORONDIS GOLD B 480SL Fungicide.

ORONDIS GOLD B 480SL Fungicide is readily absorbed by the roots and provides protection against attack from this disease under varied weather conditions.

## 11.3 Potatoes

Suppression of Pink Rot (*Phytophthora erythroseptica*) and Pythium Leak (*Pythium* spp.)

Apply 4 mL of ORONDIS GOLD B 480SL Fungicide per 100 metres of row directly over the seed pieces in furrow as a 15-20 cm band prior to row closure. Apply in a minimum of 30 L of water per hectare.

Do not apply more than one application per season. Do not apply ORONDIS GOLD B 480SL Fungicide beyond the at-planting stage.

## 12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that ORONDIS GOLD B 480SL Fungicide contains a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to ORONDIS GOLD B 480SL Fungicide 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. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

### To delay fungicide resistance:

Where possible, rotate the use of ORONDIS GOLD B 480SL Fungicide or other Group 4 fungicides with different groups that control the same pathogens. In order to minimize the potential for the development of resistance among the labeled disease organisms do not use ORONDIS GOLD B 480SL Fungicide in any two consecutive seed generations.

Use tank mixtures with fungicide from a different group when such use is permitted.

Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and 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.

Monitor treated fungal populations for resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to ORONDIS GOLD B 480SL Fungicide is suspected.

If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

For further information and to report suspected resistance, contact Syngenta Canada Inc. at 1-877-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

ORONDIS® is a registered trademark of a Syngenta Group Company.