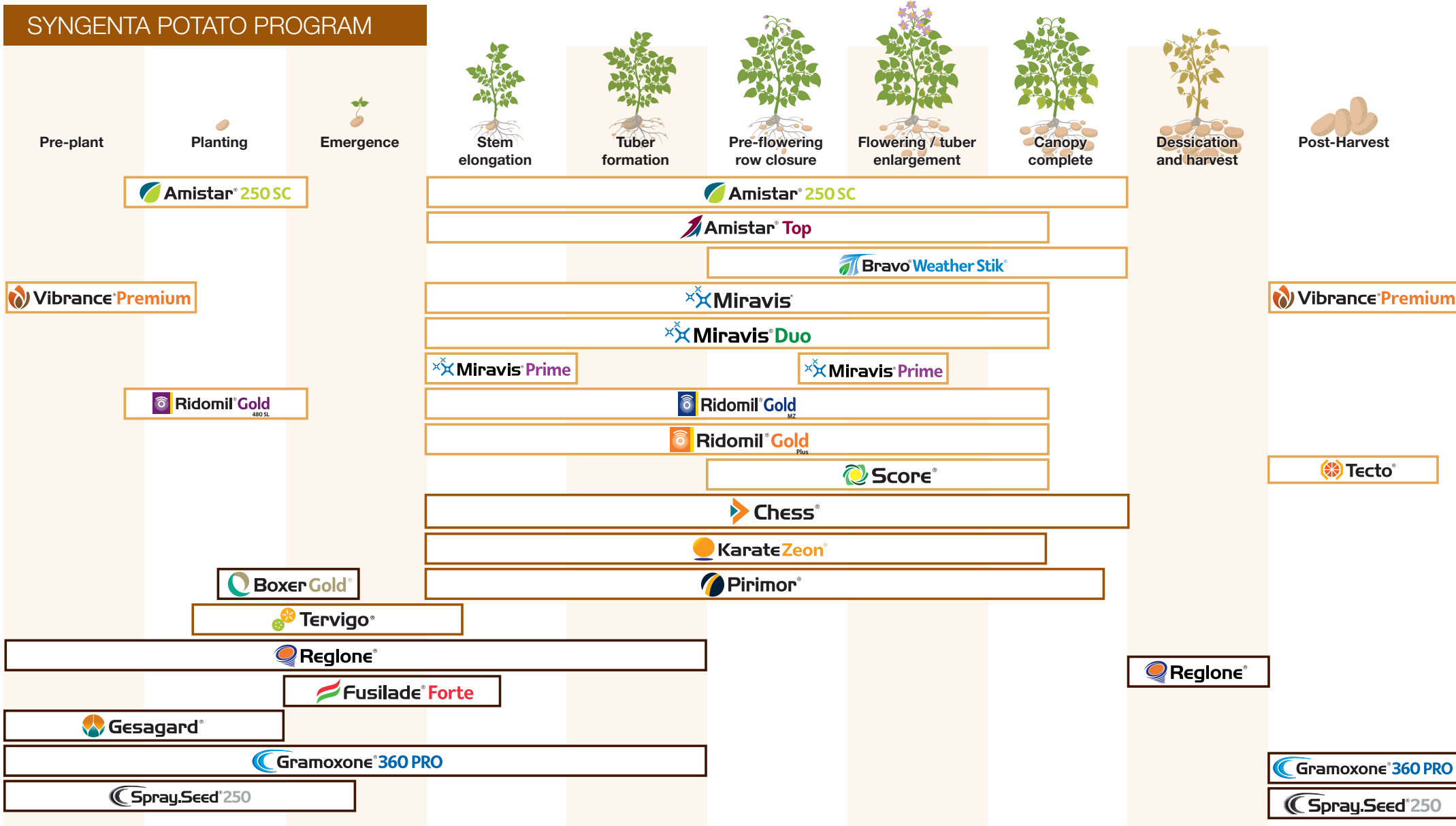


# POTATO PROGRAM

syngenta®

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# SYNGENTA POTATO PROGRAM



Fungicide
  Insecticide/Aphicide/Nematicide
  Herbicide



## SYNGENTA POTATO FUNGICIDES

### Amistar® 250 SC

**Foliar: early blight (target spot), late blight**

**Soilborne: black scurf, suppression of sliver scurf**

- Flexibility for use as an in-furrow and foliar application against key potato diseases
- Systemic activity providing movement through the plant to protect new and existing leaves
- Proven performance to control disease for maximum yield and quality potential

### Miravis®

**Early blight (target spot)**

- Standout powerful and dependable control of early blight
- Potent activity with long lasting protection up to 21 days
- Prolongs green leaf area and promotes tuber bulking to maximise yield potential

### Amistar® Top

**Early blight (target spot), late blight**

- Long lasting protectant activity
- Two complementary modes of action for resistance management
- Rapid uptake for reliable and sustained disease control

### Bravo® Weather Stik®

**Early blight (target spot), late blight**

- Targeted protectant fungicide for dependable foliar disease control
- Advanced formulation for superior persistence in all weather conditions for extra protection
- Unique surfactant technology for optimum rainfastness even after heavy rain or irrigation

**AMISTAR® 250 SC fungicide** when used as an in-furrow spray at planting, requires the mounting of spray nozzles directed into the furrow just before the seed is covered. Use higher rates where disease pressure is high. Ensure water volume does not wash off any seed treatments previously applied. DO NOT use if conditions or seed quality favour bacterial rots. DO NOT apply if planting in hot, sandy soils.

As a foliar spray, apply at 7-14 day intervals at any time from early shoot growth. Use shorter interval when conditions favour disease or where there is rapid vegetative growth.

**AMISTAR® Top fungicide** should be applied before disease symptoms appear at 7-14 day intervals at any time from early shoot growth until 7 days before harvest. Use shorter interval when conditions favour disease or where there is rapid vegetative growth.

**BRAVO® WEATHER STIK® fungicide** should be applied at flowering time or earlier if weather conditions favourable disease. Use at 7-14 day spray intervals.

**MIRAVIS® fungicide** should be applied before disease symptoms appear. Use the higher rate when conditions favour high disease pressure, when extending the spray interval beyond 14 days, or later in the season when there is a full canopy. DO NOT irrigate to the point of run off or use if heavy rain expected within 3 days of application.

## SYNGENTA POTATO FUNGICIDES

### **Miravis® Duo**

#### Early blight (target spot) and powdery mildew

- Two modes of action for improved disease control and to mitigate the risk of fungicide resistance
- Inhibits fungal development at many stages of the disease cycle
- Convenient formulation provides ease of use and excellent crop safety

### **Ridomil® Gold** MZ

#### Early blight (target spot), late blight, pink rot

- Combination of mancozeb + metalaxyl-m for increased preventative activity
- Water dispersible granule for ease of mixing
- Outstanding preventative activity for key potato diseases

### **Miravis® Prime**

#### Sclerotinia, early blight (target spot) and botrytis

- Delivers a powerful solution for Sclerotinia control whilst targeting early blight and Botrytis
- Combines a contact and xylem systemic fungicide to inhibit fungal development in multiple ways
- Strength of two modes of action to mitigate the development of fungicide resistance

### **Ridomil® Gold** Plus

#### Early blight (target spot), late blight, pink rot

- Unique copper + metalaxyl-m formulation to provide increased preventative activity
- Rapid uptake by the plant for robust and reliable disease control
- Excellent protective ability to stop fungal penetration and systemic active to protect new growth

### **Ridomil® Gold** 480 SL

#### Pink rot

- Liquid formulation used as an in-furrow application for control of pink rot
- Readily taken up by the plant in solution to inhibit soil-borne fungal infection
- Protects tubers at planting to improve early establishment

### **Score®**

#### Early blight (target spot)

- Systemic fungicide with strong action for long-lasting disease control
- The active ingredient difenconazole is taken up by the plant to stop fungal colonisation
- Able to prevent disease within the crop leading to enhanced quality produce

**MIRAVIS® Duo fungicide** should be used preventatively by commencing applications when conditions favour disease development and before the onset of symptoms. Allow a minimum of 7-10 days between applications.

**MIRAVIS® Prime fungicide** should be used preventatively by commencing applications when conditions favour disease development and before the onset of symptoms. Allow a minimum of 7-14 days between applications.

**RIDOMIL® Gold 480 SL fungicide** should be applied as an in-furrow spray at planting. DO NOT apply if conditions or seed quality favour bacterial rots as excess moisture will aggravate disease. DO NOT apply when planting in hot, sandy soils.

**RIDOMIL® Gold MZ fungicide** should be applied at 4 to 6 weeks after planting to provide further protection against pink rot, then 14 days later.

**RIDOMIL® Gold Plus fungicide** should be applied to the crop early before disease symptoms appear. Apply 2 consecutive sprays at 7-10 day intervals (shorter interval when disease pressure is severe).

**SCORE®** should be applied at row closure and before disease occurs. Apply when conditions favour disease. Apply the low rate at 7 day intervals and higher rates at 10-14 day intervals.



## SYNGENTA POTATO SEED TREATMENT FUNGICIDES



### Dry rot, gangrene and silver scurf

- Excellent control of post-harvest storage fungal diseases
- Binds strongly to the seed piece to protect potatoes in storage
- Reliable residual activity extends seed piece health and storage life



### Black dot, black scurf, Fusarium dry rot, gangrene, silver scurf

#### Suppression: common scab

- Two modes of action delivering excellent broad spectrum control of seedborne and storage diseases
- Easy to use liquid formulation adheres to the tuber to give good uniform coverage
- Early disease control for production of high quality premium potatoes

**TECTO® fungicide** should be applied after harvest, preferably as a mist over potatoes on the conveyer line prior to storage. Ensure thorough application to the tuber.

**VIBRANCE® Premium fungicide** should be applied to dormant seed potato prior to storage, or treat seed prior to planting. Ensure thorough and even distribution over seed. DO NOT apply to seed if conditions or seed quality favour bacterial rots as disease may be aggravated with additional moisture. Ensure seed is dry before storage or planting. DO NOT plant or store wet or poor quality seed. DO NOT apply to seed planted in hot, sandy soils. DO NOT apply to seed prior to planting if an application was made before storage. DO NOT apply to sprouted seed which has sprouts greater than 3 mm in length as the wound can be more susceptible to disease.

## SYNGENTA POTATO INSECTICIDES/APHICIDES/NEMATICIDES



### Green peach aphid

- Exhibits excellent translaminar and locally systemic activity for targeted aphid control
- Penetrates green leaves to effectively control aphids that shelter and feed on the underside of the leaf
- Immediately stops feeding behaviour with death within a few days due to starvation



### Root knot nematode

- Irreversibly paralyses nematodes, so they are no longer able to infect
- Applied via in-furrow at planting and broadcast spray, it protects the tubers as they develop
- The unique chelated formulation ensures optimal soil penetration and contact with nematodes



### Vegetable jassid

- Active ingredient is suspended in microcapsules reducing hazards to the user and the environment
- Microcapsules burst or deflate upon contact to provide rapid jassid knockdown
- Enhanced adherence to the leaf delivers robust rainfastness with residual activity up to 10 days



### Potato aphids

- Unique 3-way action provides fast action and rapid knockdown against aphids (contact, translaminar and fumigant activity)
- Specific aphicide Integrated Pest Management (IPM) compatible and other beneficial insects
- Provides residual control of aphids for up to two weeks

**CHESS® insecticide** should be applied when local pest thresholds are reached and before high aphid infestation.

Make subsequent retreatment if necessary at a minimum 14 day interval.

**KARATE ZEON® insecticide** should be applied only when pest numbers are excessive.

**PIRIMOR® insecticide** should be applied when aphids first appear. Use the higher rate if temperature falls below 20°C.

**TERVIGO® nematicide** should be applied as an in-furrow spray at planting, ensuring the water volume used does not wash off any previously applied seed treatments. Apply a second application as a banded spray over the row between 14 to 30 days after planting, maximising contact with the soil. Apply sufficient overhead irrigation immediately after treatment (whilst avoiding surface runoff), to allow the product to reach the root zone. **DO NOT** apply TERVIGO® nematicide if conditions or poor seed quality favour seed piece breakdown (eg high soil temperature and moisture, high relative humidity, light textured soils, insect damaged seed) as the addition of any moisture to the seed may enhance the problem.

### INTEGRATED PEST MANAGEMENT (IPM)

Integrated Pest Management is a strategy that encourages the use of various tools to assist in the control of insect pests of crops including; biological control, cultural control, varietal selections and chemical control. By using a combination of these options, the aim is to cost effectively produce high quality marketable produce. An understanding of pest and beneficial insect dynamics, and how to monitor them, is essential for successful IPM. Where appropriate, growers should encourage naturally occurring beneficial insects and / or consider releasing mass reared beneficial organisms to manage the pest population. If the use of an insecticide is required, selective insecticides are preferred because they potentially have a lower impact on beneficial arthropods.

## SYNGENTA POTATO HERBICIDES



**Annual ryegrass, barnyard grass, blackberry nightshade, fat hen, fumitory, glossy nightshade, redroot amaranth, summer grass, toad rush, capeweed**

**Suppression: common thornapple, fierce thornapple**

- Innovative chemistry for pre-emergent weed control
- Dual, active ingredients to deliver consistent and effective control of hard-to-control weeds
- Consistent effectiveness in local potato growing regions



**For the control of certain grasses, please refer to the label**

- Systemic post-emergent herbicide selective to grasses
- Rapidly absorbed and translocated through actively growing leaves
- Rainfast within one hour for flexibility of application



**For the control (or suppression) of certain broadleaf and grass weeds, please refer to the label**

- Effective weed control by both contact and root action
- Provides residual control for 6 to 8 weeks
- Controls early competing weeds to assist good crop establishment

**BOXER GOLD® herbicide** should be applied after planting, but no later than 25% shoot emergence. Apply to moist soil for effective weed uptake. Crop yellowing may occur in soils with low organic matter or which contain more than 60% of fines and silt. DO NOT apply to potato fields where slopes exceed 4%. DO NOT irrigate to the point of run off 3 days after application or if heavy rains that are likely to cause runoff are forecast within 2 days of application.

**FUSILADE® Forte herbicide** should be applied when the crop is 15 cm or less in height. Apply to actively growing grass weeds. Application during prolonged dry periods may reduce effectiveness.

**GESAGARD® 500 SC herbicide** should be applied in late autumn and winter. Apply prior to crop emergence. DO NOT apply when dry conditions prevail. Use lower rate on light soils and higher rates on heavy soils.



## SYNGENTA POTATO HERBICIDES

### Gramoxone® 360 PRO

#### Annual grasses and broadleaf weeds

- Innovative chemistry for pre-emergent weed control
- Dual, active ingredients to deliver consistent and effective control of hard-to-control weeds
- Consistent effectiveness in local potato growing regions

### Reglone®

#### Potato haulm desiccation and pre-harvest weed control of broadleaf weeds

- Non-selective contact herbicide for fast, reliable desiccation making harvest easy
- Rapidly absorbed to deliver complete knockdown
- Rainfast in minutes giving application flexibility

### Spray.Seed® 250

#### Annual grasses and broadleaf weeds

- Broad spectrum non-selective contact herbicide
- Unrivalled speed of desiccation for fast knockdown
- Rainfast in 30 minutes for flexibility of use

**GRAMOXONE® 360 Pro herbicide** should be applied at early crop emergence (no later than 25% shoot emergence). Use higher rates for dense weed growth. For optimum activity, apply with an adjuvant. GRAMOXONE® 360 Pro herbicide can also be applied about 1 week before digging to assist with pre-harvest weed control.

**REGLONE® herbicide** should be applied as soon as crop is ready to harvest for haulm desiccation. Add an adjuvant such as AGRAL® spray adjuvant to assist activity. DO NOT apply during drought periods or when plants are covered in dust or soil. Leaf kill is rapid after spraying and usually complete within 4 days. Stem kill will take 10-14 days. Wait at least 14 days after spraying then lift when desiccation is complete. REGLONE® herbicide can also be used about 7 days prior to harvest for pre-harvest weed control as well as a blanket spray prior to crop emergence and a shielded spray between crop rows.

**SPRAY.SEED® 250 herbicide** should be applied as a blanket spray after planting and hilling up when crop is at 10-25% shoot emergence. Emerged potato shoots will suffer marginal burn but will recover quickly. DO NOT use for potato haulm desiccation. Add AGRAL® spray adjuvant if application water volume exceeds 200 L/ha. SPRAY.SEED® 250 herbicide can also be used for weed destruction prior to digging and for pre-crop emergence weed control as per label. The addition of AGRAL is only related to the use for weed destruction prior to digging.

## SYNGENTA POTATO PRODUCT INFORMATION

Product	Active Ingredient	Group	Withholding period	Rainfast period	Re-entry period	Max. applications
AMISTAR® 250 SC fungicide	Azoxystrobin	11	Not required when used as directed	When dry	When dry	3 per crop
AMISTAR® Top fungicide	Azoxystrobin + difenconazole	11 + 3	7 days	2 hours	When dry	6 per season
BRAVO® WEATHER STIK® fungicide	Chlorothalonil	M5	Not required when used as directed	When dry	When dry	-
MIRAVIS® fungicide	Pydiflumetofen	7	7 days	1 hour	When dry	3 per crop
MIRAVIS® Duo fungicide	Difenoconazole + pydiflumetofen	3 + 7	7 days	When dry	When dry	2 per crop/per year
MIRAVIS® Prime fungicide	Pydiflumetofen + fludioxonil	7 + 12	14 days	1 hour	When dry	2 per crop/per year
RIDOMIL® Gold 480 SL fungicide	Metalaxyl-m	4	Not required when used as directed	4 hours	When dry	1 per crop
RIDOMIL® Gold MZ fungicide	Mancozeb + metalaxyl-m	M3 + 4	7 days	6 hours	When dry	2 per crop
RIDOMIL® Gold Plus fungicide	Copper + metalaxyl-m	M1 + 4	7 days	6 hours	When dry	2 per crop
SCORE® fungicide	Difenoconazole	3	7 days	2 hours	When dry	6 per season
TECTO® fungicide	Thiabendazole	1	Not required when used as directed	2 hours	Not applicable	1 per crop
VIBRANCE® Premium fungicide	Fludioxonil + sedaxane	12 + 7	Not required when used as directed	When dry	Not applicable	1 per crop
CHESS® insecticide	Pymetrozine	9B	Not required when used as directed	When dry	When dry	2 per crop
KARATE ZEON® insecticide	Lambda-cyhalothrin	3A	7 days	6 hours	When dry	-
PIRIMOR® WG aphicide	Pirimicarb	1A	2 days	2 hours	When dry	-
TERVIGO® nematicide	Abamectin	6	Not required when used as directed	Not Applicable	When dry	2 per crop
BOXER GOLD® herbicide	Prosulfocarb + s-metolachlor	15	Apply after planting, after the first cultivation but no later than 25% potato shoot emergence	When dry	When dry	1 per crop
FUSILADE® Forte herbicide	Fluazifop-p-butyl	1	10 weeks	1 hour	When dry	-
GESAGARD® 500 SC herbicide	Prometryn	5	Not required when used as directed	When dry	When dry	-
GRAMOXONE® 360 PRO herbicide	Paraquat	22	Not required when used as directed	30 minutes	When dry	-
REGLONE® herbicide	Diquat	22	7 days	30 minutes	When dry	-
SPRAY.SEED® herbicide	Paraquat + diquat	22	Not required when used as directed	30 minutes	When dry	-

Consult the product label for directions for use and check the CropLife Australia website (<http://www.croplife.org.au>) to comply with resistance management strategies.

Fungicide
  Insecticide/aphicide/miticide
  Herbicide





**FOR FURTHER INFORMATION TALK TO  
YOUR LOCAL SYNGENTA REPRESENTATIVE  
OR VISIT [SYNGENTA.COM.AU](https://www.syngenta.com.au)**

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