

GROUP	30				INSECTICIDE
GROUP	3	4	7	12	FUNGICIDES

A23128 ST

SEED TREATMENT FUNGICIDE AND INSECTICIDE

COMMERCIAL

SUSPENSION

A seed treatment product for the control of insect pests and control or suppression of seed-borne and soil-borne diseases on wheat (spring/winter, durum), barley, oats, rye, triticale.

PLINAZOLIN® technology*

ACTIVE INGREDIENTS:

Isocycloseram	15.4 g/L
Difenoconazole	36.8 g/L
Sedaxane	15.4 g/L
Metalaxyl-M (and S-isomer)	9.2 g/L
Fludioxonil	7.6 g/L

Contains 1,2-benzisothiazolin-3-one at 0.0097%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00011%, 2-methyl-4-isothiazolin-3-one at 0.000037%, and 2-Bromo-2-nitro-1,3-propanediol at 0.03%

*PLINAZOLIN® technology denotes the Syngenta trademark for the active ingredient isocycloseram

Warning, contains the allergen soy

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

REGISTRATION NUMBER: 35688
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 L to 1050 L

All seed treated with this product must be conspicuously coloured at the time of treatment.

For On-Farm and Commercial Seed Treatment (facilities and mobile treaters).

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, contact a doctor or a 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 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.

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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS.

DO NOT eat, drink, vape or use tobacco (including smoking) while using this product.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum/tobacco, smoking/vaping, or using the toilet.

Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring.

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)

Follow the personal protective equipment and restriction requirements for the appropriate task and scenario for wheat (spring/winter, durum), barley, oats, rye, triticale seed types:

	Tasks	PPE/ Engineering Controls
For Commercial Seed Treatment (facilities including mobile treaters)		
	Mixing, loading, treating, calibrating, bagging, sewing seed bags, stacking and driving a forklift	Open or closed transfer. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Wear a respirator ¹ when bagging, sewing, stacking bags of treated seed or when transferring seed to a storage bin and when driving a forklift.
	Cleaning and repair	Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator ¹ .
For On-Farm Seed Treatment and Planting of Treated Seeds		
	Mixing, loading, treating, calibrating, cleaning, repairing, planting and any other activities involving handling treated seeds	Open or closed transfer. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a respirator ^{1,2} . Use a closed-cab tractor when planting. Gloves and a respirator are not required within the closed cab.
For Planting Commercially Treated Seeds		
	Handling and Planting	Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a respirator ^{1,2} . Use a closed-cab tractor when planting. Gloves and a respirator are not required within the closed cab.

¹ A respirator is a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.

² The respirator is not required during planting when the closed cab provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab.

For All Activities:

For good hygiene practice, wear a NIOSH-approved N95 filtering facepiece respirator (dust mask) that is properly fit tested during all activities.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. DO NOT reuse them.

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.

Wear freshly laundered clothes daily.

DO NOT wear contaminated shoes.

6.0 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms. Isocycloseram is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the "Protecting pollinators when using treated seed – best management practices" on the Health Canada webpage on pollinator protection at www.canada.ca/pollinators. DO NOT load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honeybee colonies. Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

Toxic to birds and small wild mammals.

Any spilled or exposed seeds and dust must be incorporated into the soil or otherwise cleaned up from the soil surface.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

7.0 USE LIMITATIONS

1. Treated seed MUST NOT be used for food, feed or oil processing.
2. Store away from food, feed, and out of the reach of children and animals.
3. DO NOT plant any crop other than Tuberous and Corm Vegetables (Crop Subgroup 1C), Bulb Vegetables (Crop Group 3-07), Leafy Vegetables (Crop Group 4-13), Brassica Head and Stem Vegetables (Crop Group 5-13), Soybeans, Fruiting Vegetables (Crop Group 8-09), Cucurbit Vegetables (Crop Group 9), Pome Fruits (Crop Group 11-09), Stone Fruits (Crop Group 12-09), Tree Nuts (Crop Group 14-11), Peanuts, Corn, Pulses (Crop Subgroup 6C), Small Grain Cereals, Rapeseeds (Crop Subgroup 20A) within 120 days to fields in which seeds treated with A23128 ST were planted.
4. DO NOT graze or feed livestock on treated area for 45 days after planting.

LABELLING OF TREATED SEED

All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows:

“KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS. DO NOT use for food, feed or oil processing. This seed is treated with the insecticide isocycloseram and the fungicides difenoconazole, sedaxane, metalaxyl-M (and S-Isomer), and fludioxonil. Store this product away from food or feed. During handling and planting of treated seed, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested. Use a closed-cab tractor when planting. Gloves and respirator are not required within a closed cab which provides both a physical barrier and respiratory protection (such as a dust/mist filtering and/or vapour/gas purification system). DO NOT graze or feed livestock or cut for hay on seeded area for 45 days after planting. DO NOT use for food, feed or oil processing. Store away from food and feedstuffs. DO NOT contaminate food, feed or domestic water supplies. DO NOT contaminate water by cleaning of equipment or disposal of wastes. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up.”

All containers or packages containing treated wheat (spring, winter, durum), barley, oats, rye or triticale seed for sale or use in Canada must be labelled or tagged as follows:

“Toxic to birds and small wild mammals. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface. Dispose of all excess treated seed. Leftover treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.

Isocycloseram is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the “Protecting pollinators when using treated seed – best management practices” on the Health Canada webpage on pollinator protection at www.canada.ca/pollinators. DO NOT load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honeybee colonies. Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.”

8.0 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area and out of the reach of children and animals. Store this product away from seed, food or feed. Ideal storage temperature is above freezing and below 30°C. If the product should freeze, allow to thaw and agitate thoroughly prior to use.

9.0 DISPOSAL

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial 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:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment slurry
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

For Returnable Containers

DO NOT reuse this container for any purpose. For disposal, the empty container may be returned to the point of purchase (distributor/dealer).

For Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

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

PLINAZOLIN® is a trademark of a Syngenta Group Company.

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For On-Farm and Commercial Seed Treatment (facilities and mobile treaters).

Syngenta Canada Inc.

140 Research Lane, Research Park
 Guelph, Ontario N1G 4Z3
 Telephone: 1-877-964-3682

Pamphlet

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1.0 NOTICE TO USER

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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 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.

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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS.

DO NOT eat, drink, vape or use tobacco (including smoking) while using this product.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum/tobacco, smoking/vaping, or using the toilet.

Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring.

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Follow the personal protective equipment and restriction requirements for the appropriate task and scenario for wheat (spring/winter, durum), barley, oats, rye, triticale seed types:

	Tasks	PPE/ Engineering Controls
For Commercial Seed Treatment (facilities including mobile treaters)		
	Mixing, loading, treating, calibrating, bagging, sewing seed bags, stacking and driving a forklift	Open or closed transfer. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Wear a respirator ¹ when bagging, sewing, stacking bags of treated seed or when transferring seed to a storage bin and when driving a forklift.
	Cleaning and repair	Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator ¹ .
For On-Farm Seed Treatment and Planting of Treated Seeds		
	Mixing, loading, treating, calibrating, cleaning, repairing, planting and any other activities involving handling treated seeds	Open or closed transfer. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a respirator ^{1,2} . Use a closed-cab tractor when planting. Gloves and a respirator are not required within the closed cab.
For Planting Commercially Treated Seeds		
	Handling and Planting	Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a respirator ^{1,2} . Use a closed-cab tractor when planting. Gloves and a respirator are not required within the closed cab.

¹ A respirator is a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.

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For All Activities:

For good hygiene practice, wear a NIOSH-approved N95 filtering facepiece respirator (dust mask) that is properly fit tested during all activities.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. DO NOT reuse them.

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.

Wear freshly laundered clothes daily.

DO NOT wear contaminated shoes.

6.0 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms. Isocycloseram is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the "Protecting pollinators when using treated seed – best management practices" on the Health Canada webpage on pollinator protection at www.canada.ca/pollinators. DO NOT load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honeybee colonies. Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

Toxic to birds and small wild mammals.

Any spilled or exposed seeds and dust must be incorporated into the soil or otherwise cleaned up from the soil surface.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

7.0 USE LIMITATIONS

1. Treated seed **MUST NOT** be used for food, feed or oil processing.
2. Store away from food, feed, and out of the reach of children and animals.
3. DO NOT plant any crop other than Tuberous and Corm Vegetables (Crop Subgroup 1C), Bulb Vegetables (Crop Group 3-07), Leafy Vegetables (Crop Group 4-13), Brassica Head and Stem Vegetables (Crop Group 5-13), Soybeans, Fruiting Vegetables (Crop Group 8-09), Cucurbit Vegetables (Crop Group 9), Pome Fruits (Crop Group 11-09), Stone Fruits (Crop Group 12-09), Tree Nuts (Crop Group 14-11), Peanuts, Corn, Pulses (Crop Subgroup 6C), Small Grain Cereals, Rapeseeds (Crop Subgroup 20A) within 120 days to fields in which seeds treated with A23128 ST were planted.
4. DO NOT graze or feed livestock on treated area for 45 days after planting.

LABELLING OF TREATED SEED

All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows:

“KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS. DO NOT use for food, feed or oil processing. This seed is treated with the insecticide isocycloseram and the fungicides difenoconazole, sedaxane, metalaxyl-M (and S-Isomer), and fludioxonil. Store this product away from food or feed. During handling and planting of treated seed, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested. Use a closed-cab tractor when planting. Gloves and respirator are not required within a closed cab which provides both a physical barrier and respiratory protection (such as a dust/mist filtering and/or vapour/gas purification system). DO NOT graze or feed livestock or cut for hay on seeded area for 45 days after planting. DO NOT use for food, feed or oil processing. Store away from food and feedstuffs. DO NOT contaminate food, feed or domestic water supplies. DO NOT contaminate water by cleaning of equipment or disposal of wastes. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up.”

All containers or packages containing treated wheat (spring, winter, durum), barley, oats, rye or triticale seed for sale or use in Canada must be labelled or tagged as follows:

“Toxic to birds and small wild mammals. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface. Dispose of all excess treated seed. Leftover treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.

Isocycloseram is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the “Protecting pollinators when using treated seed – best management practices” on the Health Canada webpage on pollinator protection at www.canada.ca/pollinators. DO NOT load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honeybee colonies. Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.”

8.0 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area and out of the reach of children and animals. Store this product away from seed, food or feed. Ideal storage temperature is above freezing and below 30°C. If the product should freeze, allow to thaw and agitate thoroughly prior to use.

9.0 DISPOSAL

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

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:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment slurry.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

For Returnable Containers

DO NOT reuse this container for any purpose. For disposal, the empty container may be returned to the point of purchase (distributor/dealer).

For Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

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

10.0 PRODUCT INFORMATION

A23128 ST is a seed treatment formulation containing a combination of the insecticide isocycloseram for in season protection and control of wireworms, European chafers and June beetles along with the fungicides difenoconazole, metalaxyl-M and S-isomer, sedaxane and fludioxonil, which control or suppress certain seed- and/or soil-borne diseases on wheat (spring/winter, durum), barley, oats, rye, triticale, as listed below.

11.0 DIRECTIONS FOR USE

11.1 General Information

This product is a ready-to-apply water-based formulation for use with commercial seed treaters or on-farm. Treating equipment must provide uniform coverage of A23128 ST on the seed. Thorough seed coverage will offer the best protection of the seed from insect damage and disease. Uneven seed coverage may not give the desired level of disease/insect protection.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

This product does not require the addition of water for application. Consult the manufacturer of the application equipment planned to be used for suitability for this application and for instructions on operation and calibration of the equipment.

Ideal storage temperature is above freezing and below 30 °C. If the product should freeze, allow to thaw and agitate thoroughly prior to use.

This product contains a pigment that will adequately colour the treated seed. Regulations pertaining to colouration of treated seed enforced under the “Seeds Act” must be strictly adhered to when using this product.

12.0 CROP USE DIRECTIONS

Apply 325 mL of A23128 ST per 100 kg of seed to the crops listed below. At this rate, A23128 ST delivers 5 g of isocycloseram, 12 g of difenoconazole, 5 g of sedaxane, 3 g of metalaxyl-M (and S-isomer) and 2.5 g of fludioxonil per 100 kg of seed.

12.1 Small Grain Cereals

SMALL GRAIN CEREALS	
CROPS	Barley
INSECTS CONTROLLED	Wireworm European chafer (<i>Rhizotrogus majalis</i>) and June beetle (<i>Phyllophaga</i> spp.)
DISEASES CONTROLLED	Seed rot caused by <i>Fusarium</i> spp., <i>Pythium</i> spp., <i>Rhizoctonia</i> spp., <i>Penicillium</i> spp. and <i>Aspergillus</i> spp. Seedling blight, root rot, and damping-off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling blight, root rot, and damping-off caused by soil-borne <i>Pythium</i> spp. Seed-borne <i>alternaria</i> (<i>Alternaria alternata</i>) Covered smut (<i>Ustilago hordei</i>) False loose smut (<i>Ustilago nigra</i>) True loose smut (<i>Ustilago nuda</i>)
DISEASES SUPPRESSED ¹	Common root rot (<i>Cochliobolus sativus</i>) Fusarium crown and foot rot (<i>Fusarium</i> spp.) Seed-borne <i>Cochliobolus sativus</i> Take-all (<i>Gaeumannomyces graminis</i>)
RATE	325 mL/100 kg seed
TANK MIX INSTRUCTIONS	For higher wireworm and/or higher European chafer and June beetle pressure, tank mix with 25 mL/100 kg seed (2.5 g ai/100 kg of seed) of EQUENTO.
NOTES	¹ Suppression means consistent disease management at a level that is not optimal but is still of commercial benefit.
CROPS	Oats
INSECTS CONTROLLED	Wireworms European chafer (<i>Rhizotrogus majalis</i>) and June beetle (<i>Phyllophaga</i> spp.)

DISEASES CONTROLLED	Seed rot caused by <i>Fusarium</i> spp., <i>Pythium</i> spp., <i>Rhizoctonia</i> spp., <i>Penicillium</i> spp. and <i>Aspergillus</i> spp. Seedling blight, root rot, and damping-off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling blight, root rot, and damping-off caused by soil-borne <i>Pythium</i> spp. Seed-borne <i>alternaria</i> (<i>Alternaria alternata</i>) Covered smut (<i>Ustilago hordei</i>) Loose smut (<i>Ustilago avenae</i>)
DISEASES SUPPRESSED¹	Common root rot (<i>Cochliobolus sativus</i>) Seed-borne <i>Cochliobolus sativus</i>
RATE	325 mL/100 kg seed
TANK MIX INSTRUCTIONS	For higher wireworm and/or higher European chafer and June beetle pressure, tank mix with 25 mL/100 kg seed (2.5 g ai/100 kg of seed) of EQUENTO.
NOTES	¹ Suppression means consistent disease management at a level that is not optimal but is still of commercial benefit.

CROPS	Rye
INSECTS CONTROLLED	Wireworms European chafer (<i>Rhizotrogus majalis</i>) and June beetle (<i>Phyllophaga</i> spp.)
DISEASES CONTROLLED	Seed rot caused by <i>Fusarium</i> spp., <i>Pythium</i> spp., <i>Rhizoctonia</i> spp., <i>Penicillium</i> spp. and <i>Aspergillus</i> spp. Seedling blight, root rot, and damping-off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling blight, root rot, and damping-off caused by soil-borne <i>Pythium</i> spp. Seed-borne <i>alternaria</i> (<i>Alternaria alternata</i>) Common bunt (<i>Tilletia tritici</i>) ¹ Dwarf bunt (<i>Tilletia controversa</i>) ¹
DISEASES SUPPRESSED²	Common root rot (<i>Cochliobolus sativus</i>) Fusarium crown and foot rot (<i>Fusarium</i> spp.) Seed-borne <i>Cochliobolus sativus</i> Take-all (<i>Gaeumannomyces graminis</i>)
RATE	325 mL/100 kg seed
TANK MIX INSTRUCTIONS	For higher wireworm and/or higher European chafer and June beetle pressure, tank mix with 25 mL/100 kg seed (2.5 g ai/100 kg of seed) of EQUENTO.
NOTES	¹ Controls both seed- and soil-borne bunts (common, dwarf). ² Suppression means consistent disease management at a level that is not optimal but is still of commercial benefit.
CROPS	Triticale
INSECTS CONTROLLED	Wireworms European chafer (<i>Rhizotrogus majalis</i>) and June beetle (<i>Phyllophaga</i> spp.)
DISEASES CONTROLLED	Seed rot caused by <i>Fusarium</i> spp., <i>Pythium</i> spp., <i>Rhizoctonia</i> spp., <i>Penicillium</i> spp. and <i>Aspergillus</i> spp. Seedling blight, root rot, and damping-off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling blight, root rot, and damping-off caused by soil-borne <i>Pythium</i> spp. Seed-borne <i>alternaria</i> (<i>Alternaria alternata</i>) Loose smut (<i>Ustilago tritici</i>)
DISEASES SUPPRESSED¹	Common root rot (<i>Cochliobolus sativus</i>) Fusarium crown and foot rot (<i>Fusarium</i> spp.) Seed-borne <i>Cochliobolus sativus</i> Take-all (<i>Gaeumannomyces graminis</i>)
RATE	325 mL/100 kg seed
TANK MIX INSTRUCTIONS	For higher wireworm and/or higher European chafer and June beetle pressure, tank mix with 25 mL/100 kg seed (2.5 g ai/100 kg of seed) of EQUENTO.

NOTES	¹ Suppression means consistent disease management at a level that is not optimal but is still of commercial benefit. Efficacy against wireworms, European chafer and June beetle is expected to be reduced on small-seeded triticale cultivars (>40,000 seeds/kg).
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CROPS	Wheat (spring, winter, durum)
INSECTS CONTROLLED	Wireworms European chafer (<i>Rhizotrogus majalis</i>) and June beetle (<i>Phyllophaga</i> spp.)
DISEASES CONTROLLED	Seed rot caused by <i>Fusarium</i> spp., <i>Pythium</i> spp., <i>Rhizoctonia</i> spp., <i>Penicillium</i> spp. and <i>Aspergillus</i> spp. Seedling blight, root rot, and damping-off caused by seed- and soil-borne <i>Fusarium</i> spp. or <i>Rhizoctonia</i> spp. Seedling blight, root rot, and damping-off caused by soil-borne <i>Pythium</i> spp. Seed-borne <i>alternaria</i> (<i>Alternaria alternata</i>) Common bunt (<i>Tilletia tritici</i>) ¹ Dwarf bunt (<i>Tilletia controversa</i>) ¹ – Winter Wheat Loose smut (<i>Ustilago tritici</i>)
DISEASES SUPPRESSED²	Common root rot (<i>Cochliobolus sativus</i>) Fusarium crown and foot rot (<i>Fusarium</i> spp.) Seed-borne <i>Cochliobolus sativus</i> Take-all (<i>Gaeumannomyces graminis</i>)
RATE	325 mL/100 kg seed
TANK MIX INSTRUCTIONS	For higher wireworm and/or higher European chafer and June beetle pressure, tank mix with 25 mL/100 kg seed (2.5 g ai/100 kg of seed) of EQUENTO.
NOTES	¹ Controls both seed- and soil-borne bunts (common, dwarf). ² Suppression means disease management control at a level that is not optimal but is still of commercial benefit.

12.2 Tank Mixes

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.

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that A23128 ST contains Groups 3, 4, 7 and 12 fungicides and a Group 30 insecticide. Any fungal and (or) insect population may contain individuals naturally resistant to A23128 ST and other Group 3, 4, 7 or 12 fungicides and Group 30 insecticides. A gradual or total loss of pest control may occur over time if these fungicides/insecticides are used repeatedly in the same fields. Resistant individuals may dominate the population if these groups of insecticide/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 insecticide and fungicide resistance:

Where possible, rotate the use of A23128 ST or other Group 3, 4, 7 and 12 fungicides, Group 30 insecticides with different groups that control the same pathogens/insect pests.

Fungicide and insecticide use should be based on an Integrated Pest Management (IPM) program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.

Monitor treated fungal and insect populations for resistance development. 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 and insecticide product 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 the specific site and pest problems in your area.

For further information and to report suspected resistance, contact Syngenta Canada Inc. company representatives at 1-877-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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