

GROUP	N-3	NEMATICIDE
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A22011 Crop

NEMATICIDE

COMMERCIAL

SUSPENSION

For the suppression of root-knot nematode in Romaine lettuce.

TYMIRIUM® technology*

ACTIVE INGREDIENT:

Cyclobutrifluram 450 g/L

Contains 2-bromo-2- nitropropane-1,3-diol at 0.030% and 1,2-benzisothiazolin-3-one at 0.033% as preservatives.

*TYMIRIUM® technology denotes the Syngenta trademark for the active ingredient cyclobutrifluram.

READ THE LABEL AND PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN
WARNING: contains the allergen sulfites

REGISTRATION NUMBER: **35681**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 to 1000L**

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.

Restricted-Entry Interval (REI): DO NOT enter or allow worker entry into the treated area during the restricted-entry interval (REI) of 12 hours.

Avoid inhalation of vapours and spray mist, and working in spray mist.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

DO NOT apply by air.

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 a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

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. After spraying, wash hands and shower thoroughly with soap and water.

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.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using product, DO NOT eat, drink or use tobacco (including smoking).

6.0 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms.

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 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated secure area away from other pesticides, feed, seed, and foodstuffs, and out of the reach of

children, unauthorized persons and animals. To prevent contamination, store this product away from seed or fertilizer.

Ideal storage temperature is above freezing and below 30 °C. If the product should freeze, bring the product back to room temperature and ensure the contents are mixed well prior to application.

8.0 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 cleanup 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 spray mixture in the tank.
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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 DIRECTIONS FOR USE

9.1 General Information

A22011 Crop is recommended for suppression of root-knot nematode. A22011 Crop is applied to the soil to protect the roots from infection. All applications should be made according to the use directions listed in the label.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

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) or at www.syngenta.ca 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.

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

DO NOT apply by air.

9.2 Soil Application (Drench (including transplant water), Low Pressure Drip, Trickle, or Soil-Directed Banded Spray)

Consult the table in Section 10 "Crop Use Directions" for rates. For soil application, apply A22011 Crop using drench (including transplant water), low pressure drip, trickle, or soil-directed banded spray. If the application method does not move the product to the target root/crown disease zone, the application must be followed with irrigation or cultivation to correctly place the product for nematode control.

9.2.1 Transplant Water Application

Transplants should be adequately watered before transplanting. Ensure transplant water volume is sufficient to thoroughly wet the rootzone. Ensure 125-250 mL transplant water/transplant depending on sandy (125 to 250 mL) or silty soil (175 to 250 mL). For water wheel transplanters, use the plant population to determine the rate per plant.

9.2.2 Surface Band or Directed Application

Apply the labeled rate of A22011 Crop in a 10 to 30 cm (4 to 12 inch) band. Consult the table in Section 10 "Crop Use Directions" for instruction on how row spacing affects application rate per 100 m row. Follow application with cultivation or irrigation (1.25 to 2.5 cm (0.5 to 1 inch)) to move A22011 Crop to the target zone.

DO NOT apply when wind speed causes non-uniform distribution and/or favors drift beyond the area intended for treatment.

9.2.2.1 Mixing Instructions

1. Spray equipment should be thoroughly flushed with clean water before mixing A22011 Crop.
2. Fill tank 1/2 full with carrier. Engage gentle agitation.
3. Pour in the required amount of wettable powder or wettable granule, if applicable.
4. Fill tank 3/4 full and add A22011 Crop and other liquid products, if applicable.
5. Fill tank 9/10 full and add emulsifiable concentrate or liquid solutions
6. Finish filling tank. Maintain gentle agitation during mixing and application.
7. DO NOT let stand without agitation.

When using chemical handling equipment to fill the planter, the following additional recommendations apply:

- WG and DF formulations are preferentially batch mixed.
- SC, SN, and SL formulations may be inducted or batch mixed.
- EC formulations are preferentially batch mixed.

9.2.2.2 Application Instructions

1. Carrier Volume: Apply in a minimum spray volume of 50 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Nozzles: Use hydraulic nozzles or micro-tubes when applying in furrow, behind the furrow openers and ahead of the press wheels. When making banded application, apply across the open seed furrow between the openers and press wheels. When making banded application use only ASABE fine or coarser nozzles rated as delivering droplets of volume median diameter of 106 microns or greater.
3. Ensure tank agitation is engaged whenever possible.
4. Keep bypass line at bottom of tank to minimize foaming, where applicable.
5. Use 16 mesh suction screens, 50 mesh line and tip screens.

9.2.2.3 Equipment Clean-Up

Before Spraying:

Prior to using A22011 Crop, ensure that the tank, chemical handling equipment, lines and filter are thoroughly cleaned.

After Spraying:

Thoroughly clean application equipment immediately after spraying. **DO NOT** allow A22011 Crop residue to dry within application equipment.

When using tank mixes, consult the tank-mix partner label for additional clean-up instructions. The following recommendations are provided:

1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean application equipment near desirable vegetation, wells or other water sources.
2. Remove all nozzles and screens and wash separately.
3. Dispose of all rinsate in accordance with provincial or territorial regulations.

9.2.3 Application through Irrigation Equipment

A22011 Crop must be applied in a manner that ensures the product is in the root zone. A22011 Crop must be in the root zone to provide effective control/suppression of target pests. DO NOT make applications if soil moisture is below the level required for active plant growth.

This product MAY ONLY be applied through lower pressure micro sprinklers and surface laid drip irrigation AND ONLY at rates specified on this label. DO NOT apply this product through any other type of irrigation system, including permanent sub-surface drip irrigation system (ie drip tape buried beneath more than 15 cm of soil). This product MAY BE applied through surface type drip irrigation tape buried up to 15 cm of soil. DO NOT apply A22011 Crop through any irrigation system which is physically connected to a public water system. A22011 Crop may be applied through irrigation systems, which may be supplied by a public water system only if the water is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, contact your equipment manufacturers or distributor. A person knowledgeable of the system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Dilute A22011 Crop in the solution tank at a ratio of at least 5 parts of water to one part of A22011 Crop. Injecting a larger volume of a more dilute solution will usually allow a more accurate calibration of the metering equipment. Meter the pesticide into the irrigation water during the irrigation cycle.

9.2.3.1 Operating Instructions for All Labelled Types of Irrigation Systems

1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, contact the equipment manufacturer.
2. The system must contain a functional check-valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
6. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
7. Systems must use a metering pump, such as a positive displacement injection pump (e.g.

- diaphragm pump or Venturi injector), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
8. The pesticide injection pipeline must be on the downstream (field) side of the system filters to avoid potential pesticide off-site contamination or misapplication as a result of the filter backflushing process.
 9. Have a dedicated pesticide injection tank rather than tank-mixing pesticides with fertilizers or other non-pesticide products. This reduces the potential for incompatibility issues which could result in misapplication.
 10. Make A22011 Crop injections into the center of the water pipe for a thorough and quick mix. This can be accomplished with an "injection tube" which should contain a check valve.

9.2.3.2 Specific Low Pressure Micro Sprinklers and Drip Irrigation Instructions

A22011 Crop must be applied on the schedule specified in the tabulated crop and pest specific directions for use, not according to the irrigation schedule. The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through low-pressure microsprinkler or drip type irrigation equipment. Check with provincial or territorial and other applicable regulatory agencies for potential use restrictions before applying any agricultural chemicals through irrigation equipment.

1. Each run of the irrigation system must be calibrated separately to determine the time it takes water to move through the system and to make sure all emitters in the system are putting out the same amount of water.
2. Use only pressure injection or Venturi equipment.
3. Determine the area to be treated in each irrigation run.
4. Measure the output of each of the emitters or drip tubes closest to and farthest from the injection point.
5. For calibration, substitute a concentrated laundry detergent for the A22011 Crop mixture in the injector (solution) tank. It is important to use the same volume of soap solution as the planned volume of A22011 Crop solution when calibrating the system. The detergent will bubble as it leaves the emitters. Check the time period over which the bubbles occur for both the closest and farthest emitters. If these times are not within 2 minutes of each other, adjust the dilution ratio and/or the injection rate.

9.2.3.3 Step-by-Step Calibration and Application Instructions

1. Before starting to calibrate, operate the system until all of the emitters are putting out at equal flow rates or until the system is operating at full pressure.
2. Make up an indicator solution of detergent, using the same rate of indicator as the planned volume of A22011 Crop to be used in the mix.
3. Set the injector to apply the indicator solution at the injection rate to be used in the actual A22011 Crop application.
4. Attach a 30 cm length of flexible tubing over the emitter closest to the injection point, another 30 cm length over the emitter farthest away. Both emitters should be monitored to determine the time intervals that the indicator solution is observed.
5. Begin injecting the indicator solution. Direct the flow from the flexible tubes into a small container. Begin timing when the indicator solution is first detected. Stop timing when the indicator solutions are no longer detected in the container.
6. If the period of detection of the indicator solution between the near and far emitter is within 2 minutes, comparable coverage will be obtained. If they are not, make adjustments by

increasing the dilution ratio, ie using more than a 5:1 ratio of water to A22011 Crop, or adjust the injector to a slower flow rate.

7. Once the system is calibrated, dilute the needed amount of A22011 Crop with water and any other tank mix partners in the injection tank at a minimum dilution of 5 parts water to 1 part A22011 Crop.
8. DO NOT begin to inject A22011 Crop into the system until all emitters are producing equal flow rates, or until the system is at full pressure.
9. Inject the A22011 Crop solution into the system at the beginning of the irrigation set in 1.5-2.5 cm of irrigation water.

9.3 Rotational Restrictions

Crops	Plant back interval
Soybean, Romaine lettuce	0 days
Crop Group 15 (Cereal grains, including corn)	120 days
Other crops	365 days

9.4 Spray Drift Management and Application Requirements

Use good pesticide practices and apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

For the protection of non-target habitats, over-spray or drift to any body of water or other environmentally sensitive habitat must be avoided. The interaction of equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

9.5 Pre-Harvest Interval

CROP	PHI (days)
Romaine lettuce	At maturity

10.0 CROP USE DIRECTIONS

10.1 Romaine Lettuce

CROP	Romaine lettuce
PEST	Suppression of root-knot nematode (<i>Meloidogyne</i> spp.)
USE RATE	222 mL/ha
APPLICATION METHOD	Soil-applied via drench (including transplant water), low pressure drip, trickle or soil-directed banded spray application.
APPLICATION TIMING	1 application at planting.
PRE-HARVEST INTERVAL (PHI)	At maturity

NOTES	Apply in a minimum water volume of 50 L/ha for banded spray. Maximum amount of A22011 Crop per crop is 222 mL/ha. Maximum amount of cyclobutrifluram containing products per season is 100 g ai/ha.
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A22011 Crop – Soil Applied Rate Conversions

	Rate in mL per 100m row			
	Row Spacing (cm)			
	35	40	45	50
Application Rate to Achieve 222 mL/ha (expressed as mL per 100 m row)	0.78	0.89	1.00	1.11

11.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, A22011 Crop contains a Group N-3 nematicide. Although resistance in plant-parasitic nematodes has not been proven in the field, repeated exclusive use of any nematicide may facilitate resistance development and / or lead to a reduction in control due to other causes (e.g. enhanced microbial degradation). Rotation with nematicide with different modes of action is recommended. Appropriate resistance-management strategies should be followed.

To delay nematicide resistance:

Where possible, rotate the use of A22011 Crop or other Group N-3 nematicide with different groups that control the same nematodes.

Nematicide use should be based on an integrated pest management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on nematode development, nematode thresholds, as well as cultural, biological and other chemical control practices.

Monitor treated nematode populations for sign of resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the nematode to A22011 Crop is suspected.

If nematode populations continue to progress after treatment with this product, DO NOT increase the use rate, discontinue use of this product, and switch to another nematicide with a different mode 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 nematodes.

For further information and to report suspected resistance, contact Syngenta Canada Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.