

2011-0987
22-JUN-2011

page 1

(Container)



SuccessTM 480 SC

NaturalyteTM Insect Control Product

GROUP	5	INSECTICIDE
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COMMERCIAL

READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: spinosad 480 g/L
Contains 1,2-benzisothiazoline-3-one at 0.04% as a preservative
Suspension

REGISTRATION NO. 26835 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 L

Dow AgroSciences Canada Inc.
Suite 2100, 450 - 1 Street S.W.
Calgary, Alberta
T2P 5H1
1-800-667-3852

TMTrademark of Dow AgroSciences LLC

PRECAUTIONS

MAY CAUSE EYE AND SKIN IRRITATION

KEEP OUT OF REACH OF CHILDREN

DO NOT APPLY BY AIR

Avoid contact with eyes, skin and clothing. During mixing, loading, application, and cleanup and repair activities, wear long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Wash thoroughly with soap and water after handling.

For sweet corn, do not enter, or allow worker entry, into treated areas within 7 days after application to carry out detasselling or hand harvesting activities.

For crops in the Brassica crop group, do not enter, or allow worker entry, into treated areas for 3 days to carry out hand harvesting, irrigating, pruning, topping, thinning, or tying activities.

For potatoes and greenhouse lettuce, do not enter, or allow worker entry, into treated areas during the restricted entry interval (REI) of 12 hours after application.

For greenhouse cucumbers and peppers, do not enter, or allow worker entry, into treated areas during the restricted entry interval (REI) of 24 hours after application.

For all other activities, do not enter, or allow workers, adults, children or pets to enter into treated areas until pesticide residues have dried.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

FIRST AID

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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 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 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.

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

AGRICULTURAL CHEMICAL

Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to bees exposed to direct treatment, drift or residues on blooming plants. Do not apply this product or allow it to drift to blooming plants if bees are visiting the treatment area. This product is harmful to parasitoids and predatory mites and slightly harmful to foliage-dwelling predators. Care should be taken when using this product in an integrated pest management program where users are relying on the presence of beneficial arthropods.

This product is highly toxic to aquatic invertebrates. Do not contaminate aquatic habitats, such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands, when cleaning and rinsing spray equipment or containers.

This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms.

FOR AIRBLAST APPLICATIONS, a buffer zone of 2 metres (early season) or 1 metre (late season) is required between the downwind edge of the boom and sensitive aquatic habitats such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands.

This product has potential for run-off. It should not be applied under conditions where run-off is likely to occur. Do not apply immediately after a rainfall or if there is a forecast for rain during or within 48 hours after application.

DO NOT APPLY BY AIR

STORAGE

Avoid freezing. Store in original container in a secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Keep away from food and feed.

DISPOSAL

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.
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 requirements.

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.

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. The user assumes the risk to persons or property that arises from any such use of this product.

(Booklet)



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ENVIRONMENTAL HAZARDS

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DIRECTIONS FOR USE - APPLES

Success 480 SC Naturalyte Insect Control Product is derived from the fermentation of *Saccharopolyspora spinosa*. Success 480 SC Naturalyte Insect Control Product is recommended for use in integrated pest management programs. Success 480 SC Naturalyte Insect Control Product should be applied when scouting indicates that target pest densities have reached the economic threshold. Follow the specific use instructions given in this label to control target pests. Success 480 SC Naturalyte Insect Control Product (a suspension concentrate) should be mixed with water and applied with ground application equipment only. Any insect control agent can become less effective over time if target insects develop resistance to its mode of action. Adherence to local integrated pest management strategies helps to prolong the usefulness of all insect control products.

Do not enter, or allow worker entry into treated areas until pesticide residues have dried.

Application Rate

Always shake well before use. Avoid freezing. Use the following table.

Insect Pest	Application rate (mL product/ha)	Maximum number of applications per crop per year
Oblique banded leafroller larvae	182	3

Application Instructions

Apply product in a minimum of 1000 L water per hectare (amount of water will vary according to tree size). If adequate spray coverage of plant canopy requires less solution per hectare, adjust spray volume accordingly while using the same spray concentration (mL product/L water). Do not exceed 182 mL product per hectare per application. Mix the recommended dosage of Success 480 SC Naturalyte Insect Control Product in sufficient water to ensure adequate coverage and apply as a dilute spray using ground airblast equipment.

Attention should be given to sprayer speed and calibration, wind speed, and tree foliar canopy to ensure adequate spray coverage of Success 480 SC Naturalyte Insect Control Product. Ensure all plant parts are thoroughly wetted, to the point of runoff, with spray solution. To determine the number of litres of spray per hectare required in your apple orchard, consult the provincial fruit recommendations guide, or pest management advisors and extension specialists.

Application Timing

Monitor larval population in the spring, and apply when larvae begin emerging and are actively feeding, but before they roll up in the leaves. For control of the summer generation, monitor adult moth flight and larval densities to determine correct timing application. A repeat application 7 to 10 days after the initial application may be necessary for control. Apply only if treatment thresholds are exceeded. A maximum seasonal rate of 546 mL product/ha of Success 480 SC Naturalyte Insect Control Product may be applied. Avoid treating sequential generations with the same class of insect control products to delay resistance selection. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment.

Preharvest Interval: Do not apply within 7 days of harvest.

DIRECTIONS FOR USE - POTATOES**Application Rate**

Pest	Application rate (mL product/ha)	Maximum seasonal rate (mL product/ha/year)
Colorado potato beetle larvae	83 – 167	250
European corn borer larvae	125	

Application Instructions

Always shake well before use. Avoid freezing. Fill the spray tank with water to 1/2 of the total spray volume required. Start agitation and add the required amount of Success 480 SC Naturalyte Insect Control Product. Continue mixing and agitation while filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source. Use power-operated ground spray equipment capable of thorough coverage of the target crop. Orient the boom and the nozzles to obtain uniform crop coverage. Follow manufacturers recommendations for ideal nozzle spacing and spray pressure to optimize uniformity of coverage and maximize deposition within the target area.

Application Timing

Use Success 480 SC Naturalyte Insect Control Product at the dosages indicated, applied as a foliar spray to control Colorado potato beetle larvae and European corn borer larvae in potato crops. For control of Colorado potato beetle larvae, target eggs at hatch or small larvae. Use the higher application rate for higher pest pressure, or when extended egg hatch is anticipated. A repeat application 7 to 10 days after the initial application may be necessary. For control of European corn borer, time the application of Success 480 SC Naturalyte Insect Control Product to coincide with peak egg hatch. Scout for European corn borer by monitoring egg laying and egg hatch to determine application timing. A repeat application after 7 days may be necessary if egg hatch is extended. Mix the required dosage in sufficient water to ensure thorough and complete coverage of the foliage. A maximum seasonal rate of 249 mL product/ha of Success 480 SC Naturalyte Insect Control Product may be applied. Avoid treating sequential generations with the same class of insect control products to delay resistance selection. Consult with local and provincial pest control advisors and extension specialists to determine specific application timings or additional use recommendations for your area.

Pre-harvest interval: Do not apply Success 480 SC Naturalyte Insect Control Product within 7 days of harvest.

DIRECTIONS FOR USE - TURF AND OUTDOOR ORNAMENTALS

Success 480 SC Naturalyte Insect Control Product contains the active ingredient spinosad which is derived from a naturally occurring organism. Success 480 SC Naturalyte Insect Control Product is recommended for use in integrated pest management programs and can be applied when field scouting indicates that target pest densities have reached the economic threshold. Use: Consult provincial guidelines and/or local extension experts. Follow the specific use instructions given in this label to control target pests.

Application Rate

Always shake well before use. Avoid freezing. Use Success 480 SC Naturalyte Insect Control Product to control ornamental insect pests listed in the following table. Dilute Success 480 SC Naturalyte Insect Control Product in water and apply using suitable hand or power-operated application equipment to provide complete uniform plant coverage. Attempt to penetrate dense foliage, but avoid over-spraying to the point of excessive runoff. Uniform coverage is critical for effective insect control.

Insect Pest	Application Rate (mL product/1000 L)	Maximum Number of Applications per Crop per Year
conifer sawfly larvae, eastern tent caterpillar, elm leaf beetle, gypsy moth, willow leaf beetle	25	4
western flower thrips	50	3

Application Timing

Do not reapply within less than 7 days for all insect pests.

Leaf beetles (such as Elm leaf and Willow leaf beetle) - for effective control of elm leaf and willow leaf beetle larvae, applications should be made in the spring or early summer when feeding is observed.

Western flower thrips - for effective control of exposed western flower thrips on outdoor ornamentals, monitor and apply when populations reach damaging levels. For best results, apply at the floral stage of development and repeat at 7-14 day intervals as required by population pressure.

Tent caterpillar (such as eastern tent caterpillar) - for effective control of tent caterpillar, applications should be made early when webs are first observed and the spray should be directed into the web and surrounding foliage within at least 1 metre of the nest.

Conifer sawfly larvae - for effective control of sawfly larvae, applications should be made as soon as larvae appear (2nd -4th instar).

Gypsy moth - for effective control of gypsy moth larvae, applications should be timed for when larvae are small and majority of eggs are hatched.

Ornamental Phytotoxicity

Success 480 SC Naturalyte Insect Control Product has been tested on a variety of herbaceous and woody ornamental plants without phytotoxic symptoms. However, because it is not possible to test all ornamental plant species, varieties and cultivars, and because environmental factors and varietal and plant growth stage may affect phytotoxic expression, it is recommended that a small group of test plants be treated at the anticipated use rate and observed for at least 5 - 7 days to determine phytotoxicity before treating large numbers of those plants. The applicator/user assumes responsibility for determining if Success 480 SC Naturalyte Insect Control Product is safe to treated plants under commercial growing conditions.

TURFGRASS (LAWNS, SOD AND SEED FARMS, AND GOLF COURSES)

Application Rate

Use Success 480 SC Naturalyte Insect Control Product to control sod webworm. Dilute Success 480 SC Naturalyte Insect Control Product in water and apply using suitable hand or power-operated application equipment. Select the higher application rate when pest pressure is high.

Insect Pest	Application Rate (mL product/ha)	Maximum Number of Applications per Commodity per Year
Sod webworm	50-100	4

Sod webworm: For control of sod webworm larvae, applications during the late afternoon or early evening can maximize control. Delay watering or mowing of the treated area for 12 to 24 hours after treatment. Do not reapply within less than 7 days.

Mixing Instructions

Fill the spray tank with water to ½ of the total spray volume required. Start agitation and add the required amount of Success 480 SC Naturalyte Insect Control Product. Continue mixing and agitation while filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix.

Use ground based spray equipment capable of thorough coverage of the target. Orient the boom and the nozzles to obtain uniform crop coverage. Follow manufacturers' recommendations for ideal nozzle spacing and spray pressure and minimize boom height to optimize uniformity of coverage and maximize depositions within the target area.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Dow AgroSciences Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Dow AgroSciences Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Dow AgroSciences Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described below.

DIRECTIONS FOR USE

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) coarse classification. Boom height must be 60 cm or less above the crop or ground.

Airblast Application.

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16km/h at the application site as measured outside of the treatment area on the upwind side.

ROOT AND TUBER VEGETABLES

Host(s): Horseradish, radish, Oriental radish, rutabaga, turnip

Pest(s): cabbage looper, imported cabbage worm, diamondback moth

Rate: 87.4 g ai/ha (182 mL product/ha)

Application: Apply 182 mL Success 480 SC Naturalyte Insect Control Product per hectare in sufficient water to ensure thorough and complete coverage of the foliage. Apply up to a maximum of 3 applications per year. Allow 7 - 10 days between applications. Do not apply within 3 days of harvesting.

Timing: Monitor larval population and apply when treatment thresholds are exceeded. Consult provincial guidelines and local extension specialists for monitoring protocols and treatment thresholds.

SWEET CORN

Host(s): Sweet corn

Pest(s): European corn borer

Rate: 39.8 g ai/ha (83 mL product/ha)

Application: Apply 83 mL Success 480 SC Naturalyte Insect Control Product in 1000L water per hectare up to a maximum of 2 applications per year. If adequate spray coverage of plant canopy requires less solution per hectare, adjust spray volume accordingly while using the same spray concentration (mL product/L water). Do not exceed 83 mL product per hectare per application. A second application 7 to 10 days after the initial application may be necessary to achieve effective control. Do not apply within 7 days of harvesting. Do not apply within 28 days of fodder harvest or within 7 days of forage harvest.

Timing: Scout for European corn borer to monitor egg laying and egg hatch. In order to achieve effective control, applications of Success 480 SC Naturalyte Insect Control Product must be timed to coincide with peak egg hatch.

LEAFY VEGETABLES, EXCEPT BRASSICA

Host(s): Arugula, chervil, garden cress, upland cress, endive, head lettuce, leaf lettuce, orach, parsley, radicchio, spinach, New Zealand spinach, vine spinach, cardoon, celery, Chinese celery, celtuce, Florence fennel, rhubarb, Swiss chard

Pest(s): cabbage looper, imported cabbage worm, diamondback moth

Rate: 87.4 g ai/ha (182 mL product/ha)

Application: Apply 182 mL Success 480 SC Naturalyte Insect Control Product per hectare in sufficient water to ensure thorough and complete coverage of the foliage. Apply up to a maximum of 3 applications per year. Allow 7 - 10 days between applications. Do not apply within 1 day of harvesting.

Timing: Monitor larval population and apply when treatment thresholds are exceeded. Consult provincial guidelines and local extension specialists for monitoring protocols and treatment thresholds.

Host(s): Rhubarb

Pest(s): Potato stem borer (*Hydraecia micacea* (Esper))

Rate: 182 mL product/ha

Application: Apply Success 480 SC Naturalyte Insect Control Product at the rate of 182 millilitres of product per hectare in sufficient water to ensure thorough and complete coverage of the foliage, paying particular attention to coverage of the petioles. Apply up to a maximum of 3 applications per year. Allow 7 to 10 days between applications. Do not apply within 1 day of harvesting.

Timing: Larvae of potato stem borer are active from early May to mid-July. The insect feeds on plants around cultivated fields and later move into rhubarb fields feeding on the petioles. Success 480 SC must be applied to the foliage as soon as monitoring indicates that larvae are beginning to move into the crop.

FRUITING VEGETABLES, EXCEPT CUCURBIT

Host(s): Fruiting vegetables crop group (eggplant, groundcherry, pepino, bell pepper, chili pepper, nonbell pepper, sweet nonbell pepper, tomatillo, tomato)

Pest(s): European corn borer, Colorado potato beetle, cabbage looper, imported cabbage worm, diamondback moth

Rate: I) 39.8 g ai/ha (83 mL product/ha) for European corn borer, Colorado potato beetle
II) 87.4 g ai/ha (182 mL product/ha) for cabbage looper, imported cabbage worm, diamondback moth

European corn borer

Application: Apply 83 mL Success 480 SC Naturalyte Insect Control Product per hectare in sufficient water to ensure thorough and complete coverage of the foliage. Apply up to a maximum of 2 applications per year. A second application 7 to 10 days after the initial application may be necessary to achieve effective control. Do not apply within 1 day of harvesting.

Timing: Scout for European corn borer to monitor egg laying and egg hatch. In order to achieve effective control, applications of Success 480 SC Naturalyte Insect Control Product must be timed to coincide with peak egg hatch.

Colorado potato beetle

Application: Apply 83 mL Success 480 SC Naturalyte Insect Control Product per hectare in sufficient water to ensure thorough and complete coverage of the foliage. Apply up to a maximum of 3 applications per year. Allow 7 - 10 days between applications. Do not apply within 1 day of harvesting.

Timing: Monitor larval population and apply when treatment thresholds are exceeded. Consult provincial guidelines and local extension specialists for monitoring protocols and treatment thresholds.

Cabbage looper, imported cabbage worm, diamondback moth

Application: Apply 182 mL Success 480 SC Naturalyte Insect Control Product per hectare in sufficient water to ensure thorough and complete coverage of the foliage. Apply up to a maximum of 3 applications per year. Allow 7 - 10 days between applications. Do not apply within 1 day of harvesting.

Timing: Monitor larval population and apply when treatment thresholds are exceeded. Consult provincial guidelines and local extension specialists for monitoring protocols and treatment thresholds.

POME FRUITS

Host(s): Pome fruits crop group (apple, crabapple, pear, Oriental pear, quince)

Pest(s): oblique-banded leafroller, three-lined leafroller, fruittree leafroller, European leafroller, eye-spotted budmoth

Rate: 87.4 g ai/ha (182 mL product/ha)

Application: Apply 182 mL Success 480 SC Naturalyte Insect Control Product in a minimum of 1000L water per hectare. Apply up to a maximum of 3 applications per year. If adequate spray coverage of plant canopy requires less solution per hectare, adjust spray volume accordingly while using the same spray concentration (mL product/L water). Do not exceed 182 mL product per hectare per application. Allow 7 - 10 days between applications. Do not apply within 7 days of harvesting.

Timing: Monitor larval population in the spring, and apply when they begin emerging and are actively feeding, but before they roll up in the leaves. For control of the summer generation, monitor adult moth flights and larval densities to determine correct timing for application. Apply only if treatment thresholds are exceeded. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment. Avoid use when bees are actively foraging.

Apple

Host(s): Apple

Pest(s): Clearwing Moth

Rate: 125 mL product/ha

Application: Apply 125 mL of Success 480 SC Naturalyte Insect Control Product in 1500 litres of water per hectare. Using a handgun sprayer, direct the spray to cover the lower trunk of the tree, particularly the graft union and any pruning cuts. Thorough coverage is essential for control of this pest.

Timing: Use pheromone monitoring traps to determine the timing of adult emergence. Make the first application within 10 days of the first adult emergence and repeat applications at 7-10 day intervals throughout the period of adult activity, up to a maximum of 7 applications. Adult activity may occur approximately from early June to mid August, but monitoring is required to ensure proper timing.

BRASSICA LEAFY VEGETABLES

Host(s): Crop Group 5: Brassica (cole) leafy vegetables (broccoli, Chinese broccoli, brussels sprouts, cabbage, Chinese cabbage, Mustard/Chinese cabbage, Napa/Chinese cabbage, cauliflower, broccolo cavalo, kohlrabi, raab (rapini) broccoli, Bok Choy/Chinese cabbage, collards, kale, mustard greens, spinach mustard, rape greens)

Pest(s): Cabbage looper, imported cabbage worm, diamondback moth, suppression of thrips and reduction in damage from Swede midge

Rate: I) 182 mL product/ha for cabbage looper, imported cabbage worm and diamondback moth
II) 146 mL product/ha for suppression of thrips and reduction in damage from Swede midge

Cabbage looper, imported cabbage worm, diamondback moth

Application: Apply 182 mL Success 480 SC Naturalyte Insect Control Product per hectare in sufficient water to ensure thorough and complete coverage of the foliage. Apply up to a maximum of 3 applications per year. Allow 7 - 10 days between applications. Do not apply within 3 days of harvesting.

Timing: Monitor larval population and apply when treatment thresholds are exceeded. Consult provincial guidelines and local extension specialists for monitoring protocols and treatment thresholds. For the suppression of crucifer flea beetle, apply at the emergence of adult flea beetles and reapply in 7-10 day intervals as necessary.

Thrips and Swede midge

Application: Apply 146 mL Success 480 SC Naturalyte Insect Control Product per hectare. A foliar spray of 300 to 500 litres of water per hectare is recommended to ensure thorough coverage of foliage.

Timing: For thrips, apply when the pest first appears. For Swede midge, apply when local treatment thresholds have been reached as determined by monitoring. Reapply at 7 to 10 day intervals if monitoring indicates this is necessary. Use a maximum of three applications per year. Do not apply within 3 days to harvest.

STONE FRUITS

Host(s): Stone fruits crop group (apricot, sweet cherry, tart cherry, nectarine, peach, plum, chickasaw plum, damson plum, Japanese plum, prune)

Pest(s): oblique-banded leafroller, three-lined leafroller, fruittree leafroller, European leafroller, eye-spotted budmoth

Rate: 87.4 g ai/ha (182 mL product/ha)

Application: Apply 182 mL Success 480 SC Naturalyte Insect Control Product in a minimum of 1000L water per hectare. Apply up to a maximum of 3 applications per year. If adequate spray coverage of plant canopy requires less solution per hectare, adjust spray volume accordingly while using the same spray concentration (mL product/L water). Do not exceed 182 mL product per hectare per application. Allow 7 - 10 days between applications. Do not apply within 7 days of harvesting cherries, plums and prunes. Do not apply within 14 days of harvesting apricots, nectarines and peaches.

Timing: Monitor larval population in the spring, and apply when they begin emerging and are actively feeding, but before they roll up in the leaves. For control of the summer generation, monitor adult moth flights and larval densities to determine correct timing for application. Apply only if treatment thresholds are exceeded. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment. Avoid use when bees are actively foraging.

Host(s): **Chokecherries in the Prairie provinces only**

Pest(s): Prairie tent caterpillar

Rate: 25 mL product/1000 L water. Do not apply more than 1000 L water volume/ha for each application

Application: Dilute 25 mL of Success 480 SC Naturalyte Insect Control Product in 1000 L of water. Apply up to a maximum of 3 applications per year. Allow 7-10 days between applications. Do not apply within 7 days of harvest.

Timing: SPOT APPLICATION ONLY. Apply directly into the web and the surrounding foliage for at least one metre around the tents. Applications should be made early when webs are first observed. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment.

Host(s): Nectarines
Pest(s): Suppression of Western flower thrips
Rate: 87.4 g ai/ha (182 mL product/ha)
Application: Apply 182 mL Success 480 SC Naturalyte Insect Control Product in a minimum of 1000L water per hectare. Maximum of 3 applications per season for control/suppression of all pests on nectarines. If adequate spray coverage of plant canopy requires less solution per hectare, adjust spray volume accordingly while using the same spray concentration (mL product/L water). Do not exceed 182 mL product per hectare per application. Do not apply within 14 days of harvest.
Timing: Apply from early petal fall to husk fall. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment. If monitoring indicates that more than one application is required, allow 7-10 days between applications.

Host(s): Peaches
Pest(s): For the suppression of peach twig borer
Rate: 182 millilitres of product per hectare
Application: Apply 182 mL of Success 480 SC Naturalyte Insect Control Product in a minimum of 1000L water per hectare. If adequate spray coverage of plant canopy requires less solution per hectare, adjust spray volume accordingly while using the same spray concentration (ml product/L water). Apply up to a maximum of 3 applications per year. Do not apply within 14 days of harvesting.
Timing: For over-wintering generations monitor larval population in the spring, and apply when over-wintering larvae become active, from early petal fall to husk fall. For summer generations, monitor adult moth flight, and apply at first egg hatch. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment. If monitoring indicates that more than one application is required, allow 7-10 days between applications. Avoid use when bees are actively foraging.

SNAP BEAN

Host(s): Snap bean
Pest(s): European corn borer
Rate: 39.8 g ai/ha (83 mL product/ha)
Application: Apply 83 mL Success 480 SC Naturalyte Insect Control Product per hectare in sufficient water to ensure thorough and complete coverage of the foliage. Apply up to a maximum of 2 applications per year. A second application 7 to 10 days after the initial application may be necessary to achieve effective control. Do not apply within 3 days of harvesting.
Timing: Scout for European corn borer to monitor egg laying and egg hatch. In order to achieve effective control, applications of Success 480 SC Naturalyte Insect Control Product must be timed to coincide with peak egg hatch.

GREENHOUSE ORNAMENTALS

Host(s): Greenhouse ornamentals
Pest(s): Exposed western flower thrips
Rate: 24 g ai/ha (50 mL product/ha)
Application: Apply Success 480 SC Naturalyte Insect Control Product at a rate of 24 g ai/1000 L (50 millilitres product in 1000 litres of water), ensuring thorough and complete coverage of the foliage. Apply a maximum of three applications per crop cycle at 7 to 10 day intervals. Ground foliar application only.
Timing: Monitor population and apply early at first signs of infestation. Consult provincial guidelines and local extension specialists for monitoring protocols.

GREENHOUSE VEGETABLES

Host(s): Greenhouse cucumber, greenhouse pepper
 Pest(s): Cabbage looper, European corn borer and exposed western flower thrip (suppression only)
 Host(s): Greenhouse lettuce
 Pest(s): Cabbage looper
 Rate: 120 mL product for control of Cabbage looper; 50 mL product for suppression of exposed western flower thrip and control of European corn borer. Rates are mL of product per 1000 litres of water

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

Cabbage looper

Application: Apply Success 480 SC at the rate of 120 mL of product per 1000 L of water as a dilute spray. The maximum application volume that can be used is 1000 L/ha for greenhouse peppers and greenhouse cucumbers, and 500 L/ha for greenhouse lettuce. Please note that the use of this product for control of cabbage looper is restricted to plant growth stages for which thorough coverage can be achieved by application volumes of 1000 L/ha or less. Apply when eggs hatch and first instar larvae are present. Do not apply by a fogger or mister. Monitoring is critical for the proper timing of the insecticide. Repeat applications as determined by further monitoring of pest pressure. Three applications of Success 480 SC per crop cycle can be used with a minimum of 7 days between applications. Do not apply within 2 days of harvest.

European corn borer and exposed western flower thrips (suppression only)

Application: Apply Success 480 SC at the rate of 50 mL of product per 1000 L of water as a dilute spray. Applications must be made in water volumes that ensure thorough coverage. The maximum application volume that can be used is 2000 L/ha. Please note that the use of this product for control of European corn borer and suppression of exposed western flower thrips is restricted to plant growth stages for which thorough coverage can be achieved by application volumes of 2000 L/ha or less. For European corn borer, apply when eggs hatch and first instar larvae are present. For exposed western flower thrips, apply when pest first appears. Do not apply by a fogger or mister. Monitoring is critical for the proper timing of the insecticide. Repeat applications as determined by further monitoring of pest pressure. Three applications of Success 480 SC per crop cycle can be used with a minimum of 7 days between applications. Do not apply within 2 days of harvest.

GRAPE

Host(s): Grape
 Pest(s): Suppression of grape berry moth and thrips
 Rate: 87.4 g ai/ha (182 mL product/ha)
 Application: Apply 182 mL Success 480 SC Naturalyte Insect Control Product in sufficient water to ensure thorough and complete coverage of the foliage. Apply up to a maximum of 3 applications per year. Allow 7-10 days between applications. Do not apply within 7 days of harvesting.
 Timing: For grape berry moth, make initial application at egg hatch. For thrips, begin applications when monitoring indicates treatment is required. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment.

Do not enter, or allow worker entry, into treated areas within 15 days after application to carry out girdling or cane-turning activities or within 7 days after application to carry out training, tying, hand harvesting, hand pruning and thinning. For all other activities including mechanical harvesting, do not enter, or allow worker entry, into treated areas until pesticide residues have dried.

CRANBERRY

Host(s): Cranberry
 Pest(s): Cranberry Fruitworm (*Acrobasis Vaccinii*), blackheaded fireworm (*Rhopobota naevana*), Sparganothis fruitworm (*Sparganothis sulfureana*)
 Rate: I) 175 g ai/ha (365 mL product/ha) for cranberry fruitworm
 II) 87.4 g ai/ha (182 mL product/ha) for blackheaded fireworm and Sparganothis fruitworm

Cranberry fruitworm (suppression only)

Application: Apply 365 mL Success 480 SC Naturalyte Insect Control Product per hectare in a minimum of 500 L of water to ensure thorough and complete coverage of the foliage. Apply 1 to 3 applications per year at 7-10 day intervals. Do not apply within 21 days of harvest.
 Timing: Based on phenological stage of the plant: 3 to 7 days, after the fruit set has reached 50%, which corresponds to the beginning of egg hatch.

Blackheaded fireworm and Sparganothis fruitworm

Application: Apply 182 mL Success 480 SC Naturalyte Insect Control Product per hectare in a minimum of 500 L of water to ensure thorough and complete coverage of the foliage. If Cranberry fruitworm is present at the same time as Blackheaded fireworm or Sparganothis fruitworm, the higher rate of 365 ml per hectare in a minimum of 500 L of water may be used. Apply 1 to 3 applications per year at 7-10 day intervals. Do not apply within 21 days of harvest.
 Timing: Target eggs at hatch or small larvae. Monitoring is critical for proper timing. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment.

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. To minimize surface water contamination when used on cranberries, all effluent water must be impounded and released when levels of the active ingredient are $\leq 49 \mu\text{g ai/L}$.

Success 480 SC may be applied to cranberries by field sprayer (ground boom), airblast application or chemigation. For application by chemigation, read the section below.

Directions for Chemigation

DO NOT apply Success 480 SC by chemigation to other crops listed on this label. Success 480 SC may be applied through a solid set overhead sprinkler irrigation system that will apply water uniformly and within the confines of a closed perimeter of dykes. Do not apply this product through any other type of irrigation system. Sprinkler systems that deliver a low coefficient of uniformity such as certain water drive units are not recommended. Non-uniform distribution of treated water may reduce effectiveness or result in illegal pesticide residues on the crop.

Proper calibration of the chemigation system is essential to deliver the desired rate per hectare in a uniform manner and to minimize wash-off time. If you have questions about calibration, contact the equipment manufacturer or other expert.

Equipment Requirements

- The system must contain an air gap, or approved backflow prevention device, or approved functional check valve, vacuum relief valve (including inspection port), and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow unless the water is from a man-made self-contained source on private land.
- The pesticide injection pipeline must contain a functional, automatic quick-closing check valve or one-way valve to prevent the flow of fluid back toward the injection pump. A secondary containment system around the injection port area must be in place.
- The pesticide injection pipeline must also contain a functional, normally closed, valve located on the intake side of the injection system to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection when the water pressure drops or water flow stops. Alternatively, in the absence of such an automatic system, the injection procedure must be continuously monitored by an operator who is able to manually shut off pesticide injection under the same circumstances.
- Systems must use a metering device, such as a positive displacement injection pump (or flow meter on eductor) effectively designed and compatible with pesticides and capable of being fitted with a system interlock.
- The tank holding the insecticide mixture should be free of rust, fertilizer, sediment, and foreign material, and equipped with an in-line strainer situated between the tank and the injection point.
- To insure uniform mixing of the insecticide in the water line, inject the mixture in the center of the pipe diameter or just ahead of an elbow or tee in the irrigation line so the turbulence created at those points will assist in mixing. The injection point must be located after all back-flow prevention devices on the water line unless the water is from a man-made self-contained source on private land.

Precautions

- **DO NOT** connect an irrigation system used for pesticide application to a public water system unless the required safety devices for public water systems are in place. Specific local regulations may apply and must be followed.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall operate the system and shall shut the system down to make necessary adjustments should the need arise.

- **DO NOT** apply when wind speed causes non-uniform distribution.
- **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 prescribed American Society of Agricultural Engineers (ASAE) fine classification. Applications must be conducted **WITHOUT** the use of end guns.
- **DO NOT** allow spray pattern to exceed the enclosed bed area.

BERRIES

Lowbush blueberry

Pest(s): Suppression of blueberry flea beetle
 Rate: 79.2 – 105.6 g ai/ha (165-220 mL product/ha)
 Application: Apply 165-220 mL Success 480 SC Naturalyte Insect Control Product per hectare in sufficient water to ensure thorough and complete coverage of the foliage. Use the maximum rate when insect pressure is high. Use a maximum of three applications per season. Do not apply within 3 days of harvest.
 Timing: For best results, apply Success 480 SC Naturalyte Insect Control Product when blueberry flea beetles are in the early larval stage. If monitoring indicates that more than one application is required, allow 7-10 days between applications.

Caneberry subgroup (Crop group 13A) including blackberry (*Rubus* spp.; including Andean blackberry, Arctic blackberry, Bingleberry; Black satin berry; Boysenberry; Brombeere; California blackberry; Chesterberry; Cherokee blackberry; Cheyenne blackberry; Common blackberry; Coryberry; Darrowberry; Dewberry; Dirksen thornless berry; Evergreen blackberry; Himalayaberry; Hullberry; Lavacaberry; Loganberry; Lowberry; Lucretiaberry; Mammoth blackberry; Marionberry; Moras; Mures deronce; Nectarberry; Northern dewberry; Olallieberry; Oregon evergreen berry; Phenomenalberry; Rangeberry; Ravenberry; Rossberry; Shawnee blackberry; Southern dewberry; Tayberry; Youngberry; Zarzamora and varieties and/or hybrids of these); Raspberry, red and black (*Rubus* spp.); Wild Raspberry (*Rubus muelleri*); Cultivars, varieties and /or hybrids of these.

Pest(s): Control of oblique banded leafroller, cabbage looper, spanworm and winter moth
 Rate: 69.6 – 87.4 g ai/ha (145-182 mL product/ha)
 Application: Apply 145 - 182 mL Success 480 SC Naturalyte Insect Control Product per hectare in 300 to 500 litres of water to ensure thorough coverage. Use the upper rate under high insect pressure and/or on large larvae. Apply a maximum of three applications per year with a treatment harvest interval of three days.
 Timing: Monitor the population of the pest on a regular schedule and time treatment for control at egg hatch or small larvae. Repeat applications at 7 to 10 day intervals if necessary.

Bushberry subgroup (Crop group 13B) including Bushberry subgroup including Aronia berry; Blueberry, highbush (*Vaccinium* spp.); Blueberry, lowbush (*Vaccinium angustifolium* Aiton); Buffalo currant; Chilean guava; Currant, black (*Ribes nigrum* L.); Current, red (*Ribes rubrum* L.); Elderberry; European Barberry; Gooseberry; Highbush cranberry; Honeysuckle edible; Huckleberry; Jostaberry; Juneberry (Saskatoon berry); Native currant; Salal; Sea buckthorn; Cultivars, varieties and/or hybrids of these.

Pest(s): Control of oblique banded leafroller, spanworm and winter moth
 Rate: 69.6 – 87.4 g ai/ha (145-182 mL product/ha)
 Application: Apply 145 - 182 mL Success 480 SC Naturalyte Insect Control Product per hectare in 300 to 500 litres of water to ensure thorough coverage. Use the upper rate under high insect pressure and/or on large larvae. Apply a maximum of three applications per year with a treatment harvest interval of three days.

Timing: Monitor the population of the pest on a regular schedule and time treatment for control at egg hatch or small larvae. Repeat applications at 7 to 10 day intervals if necessary.

Low growing berry subgroup (Crop group 13G) including Bearberry; Bilberry; Blueberry, lowbush (*Vaccinium angustifolium* Aiton); Cloudberry; Cranberry; Lingonberry; Muntries; Partridgeberry; Strawberry; Cultivars, varieties and/or hybrids of these.

Pest(s): Control of oblique banded leafroller, cabbage looper and winter moth

Rate: 69.6 – 87.4 g ai/ha (145-182 mL product/ha)

Application: Apply 145 - 182 mL Success 480 SC Naturalyte Insect Control Product per hectare in 300 to 500 litres of water to ensure thorough coverage. Use the upper rate under high insect pressure and/or on large larvae. Apply a maximum of three applications per year with a treatment harvest interval of three days.

Timing: Monitor the population of the pest on a regular schedule and time treatment for control at egg hatch or small larvae. Repeat applications at 7 to 10 day intervals if necessary.

ASPARAGUS

Host(s): Asparagus

Pest(s): Asparagus beetle

Rate: 145 mL product/ha

Application: This product is to be used for the control of asparagus beetle on the ferns only (post harvest to the spears). Apply 145 mL of Success 480 SC Naturalyte Insect Control Product per hectare in sufficient water to ensure thorough coverage with a maximum of 3 applications per year. Do not apply within 60 days of harvesting.

Timing: Monitor the population of the pest on a regular schedule and time treatment for just after egg hatch to target early instar larvae. Reapply at an interval of 7 to 10 days if monitoring indicates the need.

GREEN ONIONS

Host(s): Green Onions, Leeks, Chives (fresh leaves), Chinese Chives (fresh leaves), Shallot (fresh leaves), Wild Leek, Bunching Onion (Beltsville bunching onion), Tree Onion (tops) and Welsh Onion (Tops)

Pest(s): Suppression of leek moth larvae

Rate: 218 mL product/ha

Application: Apply 218 mL product per hectare in sufficiently high water volume and pressure to ensure the spray solution penetrates into the leaf axils. Repeat applications at 7-10 day intervals if monitoring indicates this is necessary. Do not use more than two consecutive applications of Group 5 insecticides. Rotate the use of Success 480 SC with another product registered for the same use in a different class of insecticide for at least one application. Do not apply more than three applications per year. Do not apply within three days of harvest.

Timing: Monitoring for pest problems is essential to the performance of Success 480 SC against leek moth larvae. Apply Success 480 SC one week after peak pheromone trap capture, targeting eggs at hatch or small larvae. Generally, applications in the evening provide better control.

Refer to the main Success 480 SC Naturalyte Insect Control Product label for additional details and instructions.

READ THE ROTATIONAL CROPPING RESTRICTIONS ON THE FULL LABEL BEFORE USING THIS PRODUCT.

Resistance Management Recommendations

For resistance management, please note that Success 480 SC Naturalyte Insect Control Product contains a Group 5 insecticide. Any insect population may contain individuals naturally resistant to Success 480 SC Naturalyte Insect Control Product and other Group 5 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay insect resistance:

- Where possible, rotate the use of Success 480 SC Naturalyte Insect Control Product or other Group 5 insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices. Monitor treated pest populations for resistance development.
- 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 or to report suspected resistance, contact Dow AgroSciences Canada Inc. at 1-800-667-3852 or at www.dowagro.ca

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. The user assumes the risk to persons or property that arises from any such use of this product.

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