

(Packet)



Dow AgroSciences

Entrust™ 80 Insecticide

COMMERCIAL

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

GUARANTEE: spinosad 80%
Wettable granules

REGISTRATION NO. 27825 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 113.4 g

INDIVIDUAL PACKETS CANNOT BE SOLD SEPARATELY

®™Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

(Overpack)



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GROUP	5	INSECTICIDE
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A Naturalyte insect control product formulated for the organic grower

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Dow AgroSciences Canada Inc.

Suite 2100, 450 - 1 Street S.W.

Calgary, Alberta

T2P 5H1

1-800-667-3852

®™Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

DO NOT APPLY BY AIR

Avoid contact with eyes, skin and clothing. During mixing and loading, wear coveralls over long-sleeved shirt and long pants, single use dust mask, shoes plus socks and chemical resistant gloves. During application, clean-up 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 grapes, 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.

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

For potatoes, greenhouse lettuce, cucumbers, peppers, tomatoes and eggplant, do not enter, or allow worker entry, into treated areas during the restricted entry interval (REI) of 12 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.

No more than 80 ha/day of any crop may be treated at the given rates.

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 the 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.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted or fine textured such as clay).

Avoid application of this product when heavy rain is in the forecast, or immediately after a rainfall.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

[Airblast or Mist blower] 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 16 km/h at the application site as measured outside of the treatment area on the upwind side. A buffer zone of 2 metres (early season) or 1 metre (late season) is required between the point of direct application and closest downwind edge of sensitive aquatic habitats if the aquatic habitats are less than 1 metre in depth.

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.

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 any 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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Avoid application of this product when heavy rain is in the forecast, or immediately after a rainfall.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

[Airblast or Mist blower] 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 16 km/h at the application site as measured outside of the treatment area on the upwind side. A buffer zone of 2 metres (early season) or 1 metre (late season) is required between the point of direct application and closest downwind edge of sensitive aquatic habitats if the aquatic habitats are less than 1 metre in depth.

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.

STORAGE

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DISPOSAL

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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.

DIRECTIONS FOR USE - APPLES

Entrust 80 Insecticide is derived from the fermentation of *Saccharopolyspora spinosa*. Entrust 80 Insecticide is recommended for use in integrated pest management programs. Entrust 80 Insecticide 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. Entrust Insecticide 80 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 (g product/ha)	Maximum Number of Applications per Crop per Year
Oblique banded leafroller larvae	109	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 (g product/L water). Do not exceed 109 g product per hectare per application. Mix the recommended dosage of Entrust 80 Insecticide 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 Entrust 80 Insecticide. 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 327 g product/ha of Entrust 80 Insecticide 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 (g product/ha)	Maximum Number of Applications per Crop per Year	Maximum Seasonal Rate (g product/ha/year)
Colorado potato beetle larvae	50-100	Up to 2	150
European corn borer larvae	75	Up to 2	

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 Entrust 80 Insecticide. 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 Entrust 80 Insecticide 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 Entrust 80 Insecticide 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 150 g product/ha of Entrust 80 Insecticide 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 Entrust 80 Insecticide within 7 days of harvest.

DIRECTIONS FOR USE - TURF AND OUTDOOR ORNAMENTALS

Entrust 80 Insecticide contains the active ingredient spinosad which is derived from a naturally occurring organism. Entrust 80 Insecticide 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 Entrust 80 Insecticide to control ornamental insect pests listed in the following table. Dilute Entrust 80 Insecticide 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 (g 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	15	4
western flower thrips	30	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

Entrust 80 Insecticide 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 Entrust 80 Insecticide is safe to treated plants under commercial growing conditions.

TURFGRASS (LAWNS, SOD AND SEED FARMS, AND GOLF COURSES)**Application Rate**

Use Entrust 80 Insecticide to control sod webworm. Dilute Entrust 80 Insecticide 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 (g product/ha)	Maximum Number of Applications per Commodity per Year
Sod webworm	30-60	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 Entrust 80 Insecticide. 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.

DO NOT apply by air.

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 (109 g product/ha)
 Application: Apply 109 g Entrust 80 Insecticide 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 (50 g product/ha)
 Application: Apply 50 g Entrust 80 Insecticide 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 (g product/L water). Do not exceed 50 g 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 Entrust 80 Insecticide 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 (109 g product/ha)
 Application: Apply 109 g Entrust 80 Insecticide 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.

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 (50 g product/ha) for European corn borer, Colorado potato beetle
 II) 87.4 g ai/ha (109 g product/ha) for cabbage looper, imported cabbage worm, diamondback moth

European corn borer

- Application:** Apply 50 g Entrust 80 Insecticide 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 Entrust 80 Insecticide must be timed to coincide with peak egg hatch.

Colorado potato beetle

- Application:** Apply 50 g Entrust 80 Insecticide 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 109 g Entrust 80 Insecticide 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. For the suppression of codling moth.
- Rate:** 87.4 g ai/ha (109 g product/ha)
- Application:** Apply 109 g Entrust 80 Insecticide 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 (g product/L water). Do not exceed 109 g 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. For the suppression of codling moth, apply at first egg hatch and repeat at 7 to 10 day intervals. Codling moth larvae must be controlled before they enter the fruit. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment. Avoid use when bees are actively foraging.

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 crucifer flea beetle, suppression of thrips and reduction in damage from Swede midge

Rate: 87.4 g ai/ha (109 g product/ha)

Cabbage looper, imported cabbage worm, diamondback moth, crucifer flea beetle

Application: Apply 109 g Entrust 80 Insecticide 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 87.5 g Entrust 80 Insecticide 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 (109 g product/ha)

Application: Apply 109 g Entrust 80 Insecticide 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 (g product/L water). Do not exceed 109 g 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): **Nectarines**
 Pest(s): Suppression of Western flower thrips
 Rate: 87.4 g ai/ha (109 g product/ha)
 Application: Apply 109 g Entrust 80 Insecticide 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 (g product/L water). Do not exceed 109 g 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): Suppression of Peach twig borer (*Amarsia lineatella*)
 Rate: 87.2 g ai/ha(109 g product/ha)
 Application: Apply 109 grams of Entrust 80 Insecticide in a minimum of 1000 L 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). Maximum of 3 applications per season. Do not apply within 14 days of harvest.
 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.

**FOR THE CONTROL OF CHERRY FRUIT FLY ON SWEET AND TART CHERRIES,
THE BELOW USE DIRECTIONS SHOULD BE FOLLOWED:**

Host(s): Sweet cherry, tart cherry
 Pest(s): Cherry fruit fly
 Rate: 87.4 g ai/ha (109 g product/ha)
 Application: Apply 109 g Entrust 80 Insecticide in a minimum of 1000 L of water per hectare. Thorough coverage of foliage is necessary for optimal control. Consult provincial guidelines and local extension experts for monitoring protocols and thresholds for treatment. Apply up to a maximum of four (4) foliar applications of Entrust 80 Insecticide per crop per year. If adequate spray coverage of plant canopy requires less solution per hectare, adjust spray volume accordingly while using the same spray concentration (g product/L water). Do not exceed 109 g product per hectare per application. Allow 5-7 days between applications, shortening the application interval during rainy periods and as fruit ripens. Do not apply within 7 days of harvest.
 Timing: Monitor for adult cherry fruit fly and apply as a foliar spray within 6 days of first fly emergence.

SNAP BEAN

Host(s): Snap bean
 Pest(s): European corn borer
 Rate: 39.8 g ai/ha (50 g product/ha)
 Application: Apply 50 g Entrust 80 Insecticide 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 Entrust 80 Insecticide must be timed to coincide with peak egg hatch.

CRANBERRY

Host(s): Cranberry
 Pest(s): Cranberry fruitworm (*Acrobasis vaccinii*), blackheaded fireworm (*Rhopobota naevana*), Sparganothis fruitworm (*Sparganothis sulfureana*)
 Rate: 175 g ai/ha (218 g product/ha) for Cranberry fruitworm; 87.4 g ai/ha (109 g product/ha) for blackheaded fireworm and Sparganothis fruitworm

Cranberry fruitworm (suppression only)

Application: Apply 218 g Entrust 80 Insecticide 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 109 g Entrust 80 Insecticide 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 218 g 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 $\leq 49 \mu\text{g ai/L}$.

Entrust 80 Insecticide 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 Entrust 80 Insecticide by chemigation to other crops listed on this label.

Entrust 80 Insecticide 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: 80-105.6 g ai/ha (100-132 grams of product per hectare)
Application: Apply 100-132 g Entrust 80 Insecticide 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 Entrust 80 Insecticide 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; Rosssberry; 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: 64-87.4 g ai/ha (80-109 g of product/ha)
Application: Apply 80-109 g Entrust 80 Insecticide 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: 64-87.4 g ai/ha (80-109 g of product/ha)
Application: Apply 80-109 g Entrust 80 Insecticide 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: 64-87.4 g ai/ha (80-109 g of product/ha)
 Application: Apply 80-109 g Entrust 80 Insecticide 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: 88 g 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 88 g of Entrust 80 Insecticide 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.

GRAPES

Host(s): Grapes
 Pest(s): Suppression of Western flower thrips and grape berry moth
 Rate: 109 g product/ha
 Application: Apply 109 g of Entrust 80 Insecticide per hectare in sufficient water to ensure thorough coverage of foliage. Maximum of three applications per season for the control/suppression of all pests on grapes. Allow 7 days between applications. Do not apply within 7 days of harvest.
 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.

APPLES

Host(s): Apple trees
 Pest(s): Clearwing moth (*synanthedon myopaeformis*)
 Rate: 75 g product/ha
 Application: Apply 75 grams of Entrust 80 Insecticide 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. 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 to 10 day intervals throughout the period of adult activity up to a maximum of 7 applications.
 Timing: Adult activity may occur approximately from early June to mid August, but monitoring is required to ensure proper timing.

GREENHOUSE VEGETABLES

Host(s): Greenhouse cucumber, greenhouse pepper, greenhouse tomato and greenhouse eggplant.

Pest(s): Cabbage looper, European corn borer and exposed western flower thrip (suppression only)

Host(s): Greenhouse lettuce

Pest(s): Cabbage looper

Rate: 72 g product for control of cabbage looper; 30 g product for suppression of exposed western flower thrip and control of European corn borer. Rates are grams 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 Entrust 80 at the rate of 72 g 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, green house cucumbers, and greenhouse tomatoes, and greenhouse eggplant 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 Entrust 80 can be used per crop cycle, 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 Entrust 80 at the rate of 30 g 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 Entrust 80 can be used per crop cycle, with a minimum of 7 days between applications. Do not apply within 2 days of harvest.

CROP GROUP 3-07-BULB VEGETABLES

- Host(s):** Garlic, great-headed (elephant) garlic, dry bulb onion, green onions, leeks, chives (fresh leaves), Chinese Chives (fresh leaves), shallots, wild leek, bunching onion (Beltsville bunching onion), tree onion (tops), and Welsh onion
- Pest(s):** Suppression of onion thrips and leek moth
- Rate:** 131-158 g product/ha
- Application:** Apply Entrust 80W at the rate of 131 to 158 grams of product per hectare in sufficient water for thorough coverage. The recommended water volume is 300-500 L/ha. Use sufficiently high pressure to ensure the spray solution penetrates into the leaf axils. Use the higher rates when insect pressure is high and/or insects are in an advanced growth stage. After application, monitor populations to determine if re-treatment is required. Allow 7-10 days between applications. Multiple applications may be required to achieve suppression of onion thrips and leek moth. Do not use more than two consecutive applications of Group 5 insecticides. Rotate to another class of effective insecticides for at least one application. Use a maximum of three applications per year. Do not apply within three days of harvest.
- Timing:** Onion thrips: Apply when onion thrips first appear targeting egg hatch or small nymphs. Leek moth: Apply one week after peak pheromone trap capture targeting egg hatch or small larvae.

WALNUTS

- Host(s):** Walnuts
- Pest(s):** Control of oblique-banded leafroller, three lined leafroller, fruit tree leafroller, European leafroller; suppression of codling moth
- Rate:** 87.4 g ai/ha (109 g product/ha)
- Application:** Apply 109 g product per hectare in a minimum of 1000 L 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 (g product/L water). Apply a maximum of three applications per year. The minimum reapplication interval is 7 days. Do not apply within 14 days to harvest.

Oblique-banded leafroller, three lined leafroller, fruit tree leafroller, European leafroller

- Timing:** Under high insect pressure, an application timed to target the overwintered generation is recommended to reduce summer populations. For control of over wintering (spring generation), monitor larval populations and apply when larvae have emerged and are actively feeding, but before they roll up in the leaves. For control of summer generation, monitor adult moth flights and larval densities to determine correct timing for application. Apply only if treatment thresholds are exceeded. Repeat application in 7-10 days if required based on population monitoring.

Codling moth

- Timing:** Apply at first egg hatch based on pheromone trap catches and degree days after biofix dates. These pests must be controlled before the larvae penetrate the nut so early timing is critical. Repeat in 7-10 days if populations warrant.

BASIL (FRESH AND DRIED), DILL SEED

Host(s):	Basil (fresh and dried), dill seed
Pest(s):	Control of cabbage loopers and suppression of thrips
Rate:	109 grams of product per hectare in sufficient water volume for complete coverage of the plant foliage
Application:	For the control of cabbage looper and suppression of thrips, apply Entrust 80 Insecticide at the rate of 109 grams of product per hectare in sufficient water volume for complete coverage of the plant foliage. Repeat applications based on monitoring of insect populations. Allow 7-10 days between applications. Apply a maximum of 3 applications per year. Do not apply within 1 day of harvest for basil and do not apply within 14 days of harvest for dill seed.
Timing:	Applications should be timed at egg hatch or to small larvae.

Refer to the main Entrust 80 Insecticide label for additional details and instructions

Resistance Management Recommendations

For resistance management, please note that Entrust 80 Insecticide contains a Group 5 insecticide. Any insect population may contain individuals naturally resistant to Entrust 80 Insecticide 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 Entrust 80 Insecticide 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 any 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.