



WE ARE

All In
on fruits & vegetables



FOLPAN® 80 WDG

A water-dispersible granular fungicide that delivers exceptional protection against the most common and economically damaging diseases in grapes and other fruit, vegetable and ornamental crops



ACTIVE INGREDIENT

80% Folpet = WDG

PACKAGING

Case: 2 x 5 kg packs

APPLICATION RATES & ACRES TREATED

Rate: Rate: 0.5 – 2 kg/ac

Acres Treated: 2.5 – 10 ac/pack

WATER VOLUME

Ground: 400 – 1200 L/ac (100-317 US gal/ac)

Aerial: Do not apply by air.

RAINFASTNESS

Avoid application when heavy rain is forecast.

REGISTERED CROPS

- Apples
- Crabapples
- Field cucumbers
- Field tomatoes
- Grapes
- Melons
- Pumpkins
- Squash
- Strawberries

KEY INSECTS CONTROLLED

- Alternaria leaf spot
- Anthracnose
- Black rot
- Brooks spot
- Dead arm
- Didymellina leaf spot
- Downy mildew
- Fly speck
- Fruit rot
- Grey mould
- Leaf spot
- Phythium root rot
- Powdery mildew
- Scab
- Septoria leaf spot
- Sooty blotch
- Stem rot

HOW IT WORKS

Multi-site-contact mode of action with protective ability. Use in a regularly scheduled maintenance program.

REGISTERED AND SUPPORTED TANK MIXES

FOLPAN® 80 WDG is registered with most commonly used insecticides, adjuvants and fungicides.

Check compatibilities before making tank mixes.

MIXING INSTRUCTIONS:

1. Fill spray tank nearly full and pour recommended amount of FOLPAN® 80 WDG on surface of water.
2. Fungicide can be premixed in a bucket ½ filled with water. Mix can be poured through screen into nearly filled spray tank.
3. Finish filling tank.
4. Keep agitator running during filling and spraying.

CROP ROTATIONS

No restrictions

PRE-HARVEST INTERVALS

- Field cucumbers, Field tomatoes, Grapes, Melons, Pumpkins, Squash, Strawberries: 1 day
- Cranberries: 30 days

STORAGE

May be stored at any temperature

Crop	Diseases	Timing
Apples, crabapples	Alternaria leaf spot Black rot Brooks spot Fly speck Scab Sooty blotch	Maximum number of applications per season: 6 Apply in a regular protective schedule from green tip up until harvest. See label for additional precautions.
Cranberries	Fruit rot	Apply when 5% of blossoms are open. Repeat 10–14 days later when 50–75% of blossoms are open..
Grapes	Dead arm	Apply when new shoots are 1" to 2" long. Repeat when growth is 4" to 6" long.
	Black rot Downy mildew	Apply just before bloom, just after bloom and in first cover spray. For downy mildew, an additional application after 2–3 weeks may be needed.
	Powdery mildew	Apply in a tank mix with Kumulus® DF at first sign of mildew and repeat after 10 days.
Field cucumbers, melons, pumpkins, squash	Anthracnose, Downy mildew	Apply when first true leaves appear. Repeat at 7-day intervals until crop is harvested.
Field tomatoes	Anthracnose	Apply during first bloom and repeat at 7-day intervals until harvest.
Strawberries	Grey mould Fruit rot Leaf spot	Apply before first infection and repeat at 7-day intervals to protect crop until harvest.

CORMORAN[®]

Multiple modes of action for codling moth control in apples and Colorado potato beetle control in potatoes as well as a wide range of other insects in specialty crops



ACTIVE INGREDIENTS

Novaluron 100 g/L and Acetamiprid 80 g/L = EC

PACKAGING

Case: 2 x 10.08 L jugs

APPLICATION RATES & ACRES TREATED

Rate: 180 – 840 ml/ac

Acres Treated: 12 – 56 ac/jug

WATER VOLUME

Ground: 80–400 L/ac (20–105 US gal/ac)

Aerial: Do not apply by air.

RAINFASTNESS

Avoid application when heavy rain is forecast.

REGISTERED CROPS

- Apples
- Brassica leafy greens (Crop subgroup 4-13B)
- Bushberries (Crop subgroup 13-07B)
- Head and stem brassica vegetable crops (Crop group 5-13)
- Peppers (bell and non-bell)
- Potatoes
- Strawberries
- Stone fruits (Crop group 12-09)
- Sweet corn

KEY INSECTS CONTROLLED

- Alfalfa looper
- Alfalfa plant bug
- Aphids
- Apple maggot
- Armyworm
- Blueberry flea beetle
- Blueberry gall midge (Cranberry tip worm)
- Blueberry maggot fly
- Blueberry spanworm
- Cabbage looper
- Cherry fruit fly (suppression)
- Cherry fruitworm
- Codling moth
- Colorado potato beetle
- Cranberry fruitworm
- Diamondback moth
- Dogwood borer
- European apple sawfly
- European corn borer
- Green fruitworm
- Gypsy moth
- Imported cabbageworm
- Japanese beetle
- Leafhopper
- Leafroller
- Lesser appleworm
- Lygus bug
- Mullein bug
- Oriental fruit moth
- Plum curculio
- Spotted wing drosophila
- Strawberry clipper weevil
- Strawberry rootworm
- Swede midge
- Tarnished plant bug
- Tentiform leafminer
- Thrips

HOW IT WORKS

CORMORAN® kills insect eggs by contact and larvae by ingestion. Containing two modes of action, CORMORAN® provides both rapid knockdown and residual control of insect pests.

REGISTERED AND SUPPORTED TANK MIXES

- Acramite® 50 WS
- Luna Sensation™
- Polyram® DF WSP
- Pristine® WG

MIXING INSTRUCTIONS

1. Be sure sprayer is clean and not contaminated with any other materials or crop injury or sprayer clogging may result.
2. Fill tank ½ full with clean water.
3. Start agitation.
4. Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface.
5. Pour product directly from container into partially filled spray tank.
6. Continue filling tank. Increase agitation if necessary, to maintain surface action.
7. Maintain continuous agitation during mixing and application to assure uniform suspension. If mixture sits without agitation for extended periods, agitate the mixture for at least 10 minutes before use.

CROP ROTATIONS

There are no rotational crop plant restrictions for this product.

PRE-HARVEST INTERVALS

- Strawberries: 1 day
- Brassica leafy vegetables (Crop group 5-13 and subgroup 4-13B), Peppers, Potatoes, Stone fruits (Crop group 12-09): 7 days
- Bushberries (Crop sub-group 13-07B): 8 days
- Sweet corn: 10 days

STORAGE

- Store in original, tightly closed container.
- Do not ship or store near food, feed, seed and fertilizers.
- Store in cool, dry, locked, well-ventilated area without floor drain.
- Keep away from fire or open flame, or other sources of heat.

CROP STAGING AND RATES

Crop	Insects Controlled	Rate	Application Instructions
Apples	Leafhopper, tentiform leafminer	280 ml/ac	Apply in minimum finished spray volume of 400 L/ac by ground. Repeat applications if needed to maintain control but do not make applications < 12 days apart. Do not apply more than 2.8 L/ac per season.
	Aphids	280 – 420 ml/ac	
	Gypsy moth, Japanese beetle, mullein bug	340 – 500 ml/ac	
	Green fruitworm	420 ml/ac	
	Apple maggot, codling moth, European apple sawfly, Oriental fruit moth, plum curculio	420 – 500 ml/ac	
	Lesser appleworm, tarnished plant bug	500 ml/ac	
	Dogwood borer	600 ml/ac	
Bushberries (crop group 13-07B): Aronia berry, blueberry (lowbush, highbush), chilean guava, cranberry (highbush), currant (black, buffalo, red), elderberry, European barberry, gooseberry, honeysuckle (edible), huckleberry, jostaberry, juneberry (Saskatoon berry), lingonberry, native currant, salal, sea buckthorn and cultivars, varieties and/or hybrids of these commodities	Aphids, blueberry gall midge (cranberry tipworm)	300 ml/ac	Applications per season: 3
	Japanese beetle	280 ml/ac	Apply in a finished spray volume of 80 L/ac by ground.
	Blueberry maggot	480 – 560 ml/ac	Do not apply more than once every 10 – 14 days.
	Blueberry flea beetle, blueberry spanworm, strawberry rootworm, cherry fruitworm, cranberry fruitworm, spotted-wing drosophila, thrips	560 ml/ac	
Potatoes	Colorado potato beetle	180 – 280 ml/ac	For Colorado potato beetle, do not apply more than twice to a single generation and do not apply to successive generations.
	Armyworm, cabbage looper	180 – 300 ml/ac	
	Leafhopper	200 – 300 ml/ac	Apply in minimum finished spray volume of 80 L/ac by ground.
	Aphids, European corn borer	260 – 300 ml/ac	Do not apply more than once every 10 – 14 days.
Stone fruit (crop group 12-09): American plum, apricot, beach plum, black cherry, Canada plum, cherry plum, chicksaw plum, Chinese jujube, Damson plum, Japanese apricot, Japanese plum, Klamath plum, Nanking cherry, nectarine, peach, plum, prune plum, plumcot, sloe, sweet cherry, tart cherry and cultivars, varieties and/or hybrids of these commodities	Oriental fruit moth (Ontario only)	580 – 840 ml/ac	Maximum applications per season: 4
	Cherry fruit fly (suppression, cherry only), Plum curculio (under high pressure, suppression only)	840 ml/ac	Apply in minimum finished spray volume of 405 L/ac. Use the high rate under heavy pest pressure. Do not apply during bloom. Minimum re-application interval of 10 days.
Strawberries	Aphids, leafhopper	200 – 300 ml/ac	Maximum applications per season: 3
	Strawberry clipper weevil, tarnished plant bug	360 ml/ac	Apply in a minimum application volume of 80 L/ac by ground. Do not apply more than once every 10 – 14 days. Do not apply during bloom.

EASTERN CANADA

PRODUCT NAME Active Ingredient

Group

Replaces

Case Package Size

Registered Crops

Crop Staging

Key Pests Controlled

Tank-Mix Options

Rainfastness

Mixing Instructions

Re-Entry Period

Grazing Restrictions

Pre-Harvest Interval

Storage

HERBICIDES

ARROW ALL IN®

Clethodim

1

Unique to ADAMA
Formulation advancement compared to Select®, Statue™
and Clethodim 250

2 x 6 L jugs

Cranberries, highbush blueberries, onions (dry), potatoes, spinach

All stages

Barnyard grass, crabgrass (smooth, large), fall panicum, foxtail (green, yellow), proso millet, volunteer canary grass, volunteer cereals (wheat, barley, oats), volunteer corn, wild oats, witch grass, quackgrass (suppression only)

None for fruit and vegetable crops

1 hour

1. Tank-mix partner
2. ARROW ALL IN®

12 hours

Do not cut treated crops for feed or graze until 60 days after application.

Highbush blueberries, spinach: 14 days
Cranberries: 30 days
Onions (dry): 45 days
Potatoes: 60 days

Do not freeze.

SQUADRON® II

Metribuzin

5

Sencor®, TriCor®

4 x 5 kg jugs

Asparagus (established), fruit trees (newly planted and established), highbush blueberries (newly planted), potatoes, processing carrots, transplanted tomatoes (grown for processing)

Varies by crop

Broadleaf weeds: carpetweed¹, cocklebur, common chickweed, common ragweed, corn spurry², dandelion (seedling), green smartweed, hemp-nettle², jimsonweed¹, lady's thumb, lamb's quarters, prickly mallow, pigweed (prostrate pigweed, redroot), Russian thistle, shepherd's purse, stinkweed³, velvetleaf, wild buckwheat³, wild mustard, wild potato vine, yellow woodsorrel¹

Grassy weeds: barnyard grass, cheat grass, crabgrass, fall panicum, foxtail (giant, green, yellow), Johnson grass (seedling), witch grass

Transplanted tomatoes only:
Bravo® 500, Dual II Magnum®, Treflan® Liquid EC.

6 hours after foliar application

Contact your retailer for instructions on what mixing strategy is right for your crop.

12 hours

Refer to the label for crop-specific grazing restrictions.

Asparagus: 14 days
Potatoes, tomatoes: 60 days
Newly planted blueberries: 2 years

May be stored at any temperature

¹Pre-emergence only

²Suppression with multiple post-emergence applications of 200 g/ha

³Post-emergence only.

NOTE: Consult the product label for each product for crop staging, pest staging and application rates as they all vary by crop.

These are just a few of our many herbicide offerings. To see our full product portfolio for fruit and vegetable crops, please visit our website at ADAMA.com

EASTERN CANADA

PRODUCT NAME

Active Ingredient

Group

Replaces

Case Package Size

Registered Crops

Key Insects Controlled

Tank-Mix Options

Rainfastness

Mixing Instructions

Re-Entry Period

Grazing Restrictions

Pre-Harvest Interval

Storage

Additional Info

INSECTICIDES

ALIAS® 240 SC — Foliar*

Imidacloprid

4

Admire® 240

4 x 3.785 L jugs

Apples, Brussels sprouts, caneberries (crop subgroup 13A), cherries¹, cole (crop group 5), eggplant, highbush blueberries², lettuce³, nectarines, peaches, potatoes, tomatoes

¹ BC, ON ² BC only ³ BC, ON, PQ, PEI, NS

Aphids, black cherry fruit fly, colorado potato beetle, leaf hoppers, mullein bug, potato flea beetle, soybean aphid, tentiform leafminer, western cherry fruit fly

None registered for fruit and vegetables

Avoid application when heavy rain is forecast

1. ALIAS® 240 EC
2. Fill tank with remaining balance of water

24 hours

Do not graze or harvest cover crops for food or feed.

Caneberries: 4 days
Potatoes, field lettuce, cole, apples, peaches, nectarines, Brussels sprouts, eggplant: 7 days
Cherries: 10 days
Highbush blueberries: 14 days

Do not freeze.

Do not use in combination with or closely following an oil spray.

ALIAS® 240 SC — Seed and Soil Treatment

Imidacloprid

4

Admire® 240

4 x 3.785 L jugs

Broccoli, cabbage, field lettuce, ginseng, potatoes, Saskatoon berries

Aphids (including green, peach, buckthorn, foxglove, lettuce aphid, potato aphid), Colorado potato beetle, potato flea beetle, potato leafhopper

None registered for fruit and vegetables

Avoid application when heavy rain is forecast

Seed and seed treatment:

1. Shake well before using.
2. When using ALIAS® 240 SC in conjunction with another seed treatment such as Rancona® Apex, Rancona® Pinnacle or Vitaflo® 280, mix just prior to application.
3. Apply as a diluted spray onto seed pieces using a shielded spray system.
4. Agitate or stir spray solution as needed.

Soil application:

Apply as a narrow band in-furrow.

24 hours

Do not graze or feed livestock on treated areas for 4 weeks after planting.

Saskatoon berries: 14 days
Brussels sprouts, cole (Crop group 5), field lettuce: 21 days
Strawberries: 30 days
Eggplant: 70 days
Sweet potatoes: 125 days
Ginseng: 3 years between application and harvest

Do not freeze.

Long-term storage of mixed product or carry-over of seed treated with ALIAS® 240 SC is not recommended.

For optimal insect control, good coverage of the seed is required.

For best results, direct spray on the seed pieces or seed potatoes in the furrow.

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 Always read and follow label directions.

EASTERN CANADA

INSECTICIDES

PRODUCT NAME
Active Ingredient

SILENCER® 120 EC
Lambda-cyhalothrin

ZIVATA™ NEW Low VOC
Lambda-cyhalothrin

Group

3

3

Replaces

Labamba, Matador® 120 EC

Labamba, Matador® 120 EC

Case Package Size

4 x 3.785 L jugs

2 x 4.08 L jugs

Registered Crops

Apples, cherries, peaches and nectarines, pears, strawberries, plums, Brassica crops (broccoli, Brussels sprouts, cauliflower), tomatoes, sweet potatoes, choke cherry shelterbelts, carrots, sweet corn, potatoes

Key Insects Controlled

Aphids (apple, bean, Cabbage seedpod –adults, European asparagus, green peach, Mealy plum, pea, soybean, woolly apple), apple brown bug, apple leaf midge, armyworms (common, Bertha, fall), beetles (bean leaf, Colorado potato, Crucifer flea, potato flea, sunflower, tuber flea), cabbage looper, carrot rust fly, cherry maggot, codling moth, corn borer, corn earworm, cutworms (including dark-sided, western bean), Diamondback, moth larvae, European corn borer, grasshoppers, imported cabbageworm, leafrollers (fruit tree, oblique-banded, pale apple, potato), lygus bug, meadow spittle bug, onion thrips, oriental fruit moth, pear psylla (nymphs, adults), plum curculio, prairie tent caterpillar, spotted tentiform leafminer, swede midge, tarnished plant bug, ugly nest caterpillar, weevils (alfalfa black vine –adults, bud –clipper, carrot, pea leaf), winter moth, white apple leafhopper

Tank-Mix Options

Herbicides: SQUADRON® II
Fungicides: Allegro® (potatoes), BUMPER® 432 EC, HEADLINE® EC (potatoes), QUILT® (blueberries), SORATEL™, TOPNOTCH™

Rainfastness

1 hour

Mixing Instructions

Confirm compatibility in advance by premixing small proportional quantities of water with SILENCER® 120 EC and the tank-mix partner.

Confirm compatibility in advance by premixing small proportional quantities of water with ZIVATA™ and the tank-mix partner.

Re-Entry Period

12 hours

Grazing Restrictions

Apples, carrots, potatoes: DO NOT feed treated crops to livestock.

Pre-Harvest Interval

Cabbage, sweet corn, tomatoes: 1 day
Broccoli, Brussels sprouts, cauliflower: 3 days
Apples, carrots, cherries, nectarines, peaches, pears, plums, potatoes, strawberries: 7 days

Storage

Do not freeze

Additional Info

Apply below temperatures of 25°C.
Apply in the evening or early morning
when temperatures are cool to get the best control.

NOTE: Consult the product label for each product for crop staging, pest staging and application rates as they all vary by crop.

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FUNGICIDES

PRODUCT NAME Active Ingredient	BUMPER® 432 EC <small>Low VOC FORMULATION TECHNOLOGY</small>	CAPTAN 80 WSP Captan	SORATEL™ <small>POWERED BY Asorbital® FORMULATION TECHNOLOGY</small>
Group	3	M4	3
Replaces	Propi Super 25 EC	Other Captan products	Proline®
Case Package Size	2 x 4.8 L jugs	4 foil bags each containing 5 pouches of 0.5 kg	2 x 9.6 L jugs
Registered Crops	Apricots, blueberries (lowbush, highbush), cherries (sweet, sour), cranberries, caneberries, nectarines, peaches, plums, saskatoon berries	Soil and greenhouse bench treatment (soil treatment): celery, eggplants, peas, tomatoes, pepper, rhubarb, apples, pears, cherries, peaches, plums, prunes, apricots, nectarine trees, grapes, potatoes, tomatoes (field grown – foliar applications), cucumbers (field grown), strawberry (field grown), raspberries, highbush blueberries, blackberries, loganberries, lowbush blueberries	Sweet corn, popcorn
Key Diseases Controlled	Black knot (suppression only), blossom blight, cherry leaf spot, cottonball, entomosporium leaf and berry spot, keithia foliar blight, mummy berry, net and spot blotches, powdery mildew, rot (brown, cherry leaf, fruit), rusts (including Saskatoon juniper and yellow), scalds	Anthracnose, blight (early and late, botrytis flower, spur), black knot, brown patch, dead arm, downy mildew, fly speck, mummy berry, Phytophthora root rot, pythium root rot and damping-off, Rhizoctonia root rot, (rot, bitter, black, brown, bull's eye, fruit, grey mould, root), spot (black, brooks, cane, leaf, septoria leaf), scab, sooty blotch	Eyespot, Gibberella ear rot (suppression), grey leaf spot, Northern corn leaf blight, rust
Tank-Mix Options	Ripcord™, SILENCER® 120 EC, ZIVATA™	Nova™	Coragen®, Decis®, SILENCER® 120 EC, ZIVATA™
Rainfastness	1 hour	No restrictions	Avoid application if heavy rainfall is in the forecast.
Mixing Instructions	1. BUMPER® 432 EC 2. Tank-mix partner	1. Unopened pouches of CAPTAN 80 WSP directly to the spray tank. 2. Tank-mix partner, if required (once CAPTAN is fully dissolved).	1. SORATEL™ 2. Tank-mix partner
Re-Entry Period	Hand-pruning highbush blueberries: 5 days, Hand-harvesting and -detasseling corn: 15 days Other re-entry activities and crops: 12 hours	Re-entry varies by crop and activity. Please refer to label for recommended re-entry time.	24 hours
Grazing Restrictions	Do not graze livestock within 3 days of spraying.	N/A	Do not graze livestock within 30 days of spraying.
Pre-Harvest Interval	Strawberries: 1 day Apricots, cherries (sweet, sour), nectarines, peaches, plums: 3 days Field and sweet corn: 14 days Rutabagas: 21 days Saskatoon berry: 38 days Cranberries: 45 days Blueberries (highbush, lowbush): 60 days Asparagus: 8 months	Apricots, blueberries, cherries, cucumbers, loganberries, nectarines, peaches, plums, potatoes, prunes, rhubarb, strawberries, tomatoes: 2 days Apples, grapes, pears: 7 days	Corn (field, popcorn, sweet): 14 days
Storage	May be stored at any temperature	May be stored at any temperature	Do no freeze.
Additional Info	BUMPER® 432 EC should be applied as a preventative disease control measure.	Do not excessively handle water-soluble pouches or expose to moisture since this may cause breakage. Do not allow pouches to become wet prior to mixing spray solution.	SORATEL™ include Asorbital® Formulation Technology, offering reduced run-off and photodegradation, improved rainfastness and more thorough protection of the foliage.

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NOTE: Consult the product label for each product for crop staging, pest staging and application rates as they all vary by crop.

 Always read and follow label directions.

Where has all the innovation gone?

While many crop protection companies have turned their attention to the development of seed technologies and collecting “big data”, only ADAMA remains unapologetically committed to providing the kind of innovative crop protection solutions Canadian growers need today.



WE ARE

Agile
Innovation

Filling the innovation void with unique mixtures and formulations.



WE ARE

Active
Ingredients

Leveraging the world's largest library of actives to accelerate the pace of innovation.



WE ARE

All About
Input

Listening to growers to ensure we're answering their greatest needs.



WE ARE

Agri-Retail
Inclusive

Partnering with retailers to deliver greater value to them and their customers.

WE ARE

All In
on you



ADAMA

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