



APPLES

PRODUCT GUIDE

Solutions | Expertise | Value

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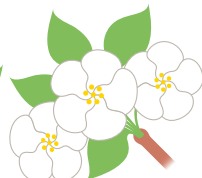
APPLE



DORMANT



KING BLOOM



FULL BLOOM



PETAL FALL

FRUIT
DEVELOPMENT

FRUIT PRESENT



POST HARVEST

Chateau EZ

Parasol FL

Blossom Protect
ExcaliaBlossom Protect
Excalia

Excalia

Chateau EZ

Parasol FL

Promalin

Promalin

MaxCel
PromalinAccede
MaxCelReTain
(July–September)Danitol
DiPel
XenTariDanitol
DiPel
XenTariDanitol
DiPel
XenTari

Chateau® EZ herbicide is a liquid formulation PPO inhibitor that works as a barrier on the soil surface providing season-long residual control of tough broadleaf and grass weeds.

Chateau® EZ

Benefits

- Long-lasting residual, pre-emergent broadleaf weed control with bonus grass suppression
- Chateau EZ stays where it is sprayed and will not leach or volatilize
- Liquid Group 14 herbicide (PPO inhibitor) works differently than many other commonly used herbicides, helping to manage resistance
- The herbicide barrier cannot be disturbed after moisture activation
- Offers flexible application timing

Registered crops

- | | | |
|------------------------------------|---|--------------------------------|
| • Asparagus | • Established mint (peppermint and spearmint) | • Pome fruit |
| • Blueberry (highbush and lowbush) | • Field pepper | • Potato (Western Canada only) |
| • Broccoli | • Garlic | • Stone fruit |
| • Celery | • Grape | • Strawberry |
| • Dry bulb onion | • Hops | • Succulent shelled pea |
| • Dry bulb shallot | • Nut trees | • Sweet potato |

General usage information

- Moisture is necessary to activate Chateau in soil for weed control (½ inch of rain or irrigation)
- This product will not control emerged weeds unless tank mixed with a labeled burndown herbicide
- Significant crop injury may occur from applications made to poorly drained soils and/or applications made under cool, wet conditions
- Do not apply to farm alleys or roads where traffic may result in treated dust settling onto crops or other desirable vegetation
- Application to non-dormant crops or when soils are flooded after application may result in non-acceptable crop injury, including yield loss
- Use appropriate water volumes to ensure good coverage
- Apply prior to weed emergence
- Undesirable crop injury may occur if Chateau comes in contact with fruit or foliage
- DO NOT tank-mix with Dual II Magnum® or Frontier® Max



Technical information

HERBICIDE GROUP

- Group 14

ACTIVE INGREDIENTS

- flumioxazin 479.2 g/L

PACKAGING

- 4 x 910 mL case

RAINFAST

- Requires ½ inch of rain or irrigation for activation

PCP

- 34036

**NUFARMER
NATION**

SAVE UP TO 10%

Specific crop usage information

WEEDS CONTROLLED/
SUPPRESSED RATE PHI APPLICATION INFORMATION

APPLE, GRAPE, NUT TREES, PEAR

<p>Annual sow-thistle Canada fleabane Common chickweed Common lamb's-quarters Common ragweed Dandelion Eastern black nightshade Green foxtail Green pigweed Hairy nightshade Kochia Redroot pigweed</p>	<p>298 mL/ha (120.6 mL/ac.) Coarse-textured soil with <5% OM 448 mL/ha (181.4 mL/ac.) Medium- and fine-textured soil with <5% OM</p>	<p>GENERAL USAGE INFORMATION Chateau should be tank-mixed with glyphosate, present as isopropyl amine or potassium salt, for control of emerged weeds. Refer to the respective tank-mix partner label for rates, additional recommendations, restrictions and precautions. Follow the most restrictive label limitations and precautions of the tank-mix product(s) being used. Only apply to healthy, established trees. Do not apply when plants are under stress from insects, diseases, animals or winter injury, planting shock or any other stresses. Chateau should be applied as a uniform broadcast application to the orchard floor or as a uniform band directed at the base of the trunk Do not make more than 2 applications per season Do not make a sequential application within 30 days of the first application Avoid direct or indirect spray contact to foliage and green bark (including non-barked vines; with the exception of undesirable suckers) Do not apply within 100 m of non-dormant pears</p> <hr/> <p>60 APPLICATION TO POME FRUIT (APPLE AND PEAR) Do not apply to apple or pear trees established less than 1 year, unless protected from spray contact by non-porous wraps, grow tubes or waxed container For apples, do not apply after budbreak unless using hooded or shielded application equipment and applicator can ensure the spray drift will not contact the crop fruit or foliage All applications to pears, or within 100 metres of pears, must be made after final harvest in the fall or 2 months before budbreak in the spring Apply to dormant pears only</p> <hr/> <p>60 APPLICATION TO GRAPES Do not apply to grapes established less than 2 years Do not apply to grapes that are not trellised or staked unless they are free standing New plantings of "own-rooted varieties", such as Concord, should be planted so that all roots are a minimum of 20 cm below the soil surface to be treated. In some situations, this may require hilling soil around newly planted vines so that the settled depth of the hill will be 10-12.5 cm above the vineyard floor. APPLICATION TO JUICE, RAISIN AND WINE GRAPES Do not apply during the period after budbreak through final harvest, unless using shielded application equipment and applicator can ensure the spray drift will not contact the crop fruit or foliage. Shielded applications during this time period should not be made with glyphosate, or products containing glyphosate. APPLICATION TO TABLE GRAPES Chateau may be applied during the period following final harvest in the fall Do not apply after budbreak in the spring</p>
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WEEDS CONTROLLED/
SUPPRESSED RATE PHI APPLICATION INFORMATION

STONE FRUIT

Annual sow-thistle	298 mL/ha (120.6 mL/ac.) Coarse-textured soil with <5% OM 448 mL/ha (181.4 mL/ac.) Medium- and fine-textured soil with <5% OM	60	Chateau should be tank-mixed with glyphosate, present as isopropyl amine or potassium salt, for control of emerged weeds. Refer to the respective tank-mix partner label for rates, additional recommendations, restrictions and precautions. Follow the most restrictive label limitations and precautions of the tank-mix product(s) being used. Do not apply to trees established less than two years, unless protected from spray contact by non-porous wraps, grow tubes or waxed containers Avoid direct or indirect spray contact to foliage and green bark Do not make more than 2 applications per season Do not make a sequential application within 30 days of the first application Do not apply within 100 m of non-dormant pears Do not apply during the period after flowering through leaf drop, unless using shielded application equipment and applicator can ensure spray drift will not come in contact with crop foliage
Canada fleabane			
Common chickweed			
Common lamb's-quarters			
Common ragweed			
Dandelion			
Eastern black nightshade			
Green foxtail			
Green pigweed			
Hairy nightshade			
Kochia			
Redroot pigweed			

Credit® Xtreme is a patented glyphosate formulation containing Dual-Salt Technology®. Its high-load formulation (540 g/L) provides fast and complete control of troublesome weeds.

Credit® Xtreme

Benefits

- Patented Dual-Salt Technology is a first of its kind innovation
- Provides broad-spectrum weed control through systemic activity
- More active ingredient in less volume – concentrated product means handling less
- Works quickly and mixes easily to make your job easier
- Excellent compatibility with tank-mixes
- Treats up to 60 acres with just one case (30 acres at standard rate)

Registered crops

- | | |
|------------------------------------|--------------|
| • Apple | • Grape |
| • Apricot | • Peach |
| • Asparagus | • Pear |
| • Blueberry (highbush and lowbush) | • Plum |
| • Cherry | • Strawberry |
| • Cranberry | • Sugar beet |
| • Ginseng | |

General usage information

- Credit Xtreme is a non-selective herbicide that will kill or injure plants if it comes in contact with green tissue
- Allow at least 1 day after application before tillage for annual weed control, 3–7 days for perennial weed control
- Extreme care must be exercised to avoid the herbicide coming in contact or drifting onto foliage, suckers or fruit
- A surfactant (Agral 90, AfSurf or Companion) must be added when Credit Xtreme is applied at a rate lower than 0.83 L/ha
- No surfactant is needed when Credit Xtreme is applied at a rate higher than 0.83 L/ha



Technical information

HERBICIDE GROUP

- Group 9

ACTIVE INGREDIENTS

- glyphosate 540 g/L

RAINFAST

- Avoid application when heavy rainfall is in the forecast

PACKAGING

- 2 x 10 L case
- 500 L tote
- Bulk

PCP

- 29888

Specific weed control information

WEEDS CONTROLLED/SUPPRESSED				RATE
Green foxtail Lady's-thumb	Stinkweed Volunteer barley	Volunteer canola Volunteer wheat	Wild mustard Wild oats	0.5 L/ha (0.2 L/ac.)
Flixweed	Kochia	Wild oats		0.67 L/ha (0.27 L/ac.)
Canada fleabane Cleavers Common ragweed Downy brome	Flixweed Giant foxtail Hemp-nettle Lamb's-quarters	Narrow-leaved hawk's-beard Persian darnel Redroot pigweed	Russian thistle Volunteer flax Wild buckwheat	0.83-1.27 L/ha (0.34-0.51 L/ac.)
Annual bluegrass Annual sow-thistle	Crabgrass	Narrow-leaved vetch Prickly lettuce	Shepherd's purse	1.5 L/ha (0.61 L/ac.)

Specific crop usage information

RATE	PHI	APPLICATION INFORMATION
APPLE, APRICOT, CHERRY, PEACH, PEAR, PLUM		
1.5-8 L/ha (0.61-3.2 L/ac.)	30	Do not make more than 3 applications per season

Blossom Protect™ is a biological fungicide that fits well in a fire blight protection plan in pome fruit.

Blossom Protect™

Benefits

- Effective protection against fire blight on pome fruit
- Unique mode of action
- Reduces the amount of resistant pathogens in the population
- No pre-harvest interval
- Safe for humans and environment (not harmful to non-target organisms)

Registered crops

- Pome fruit

General usage information

- Agitate tank solution during application and use within 8 hours
- Apply Blossom Protect the day before predicted infection conditions. Further applications can be made after 2 days if infection risk is still high and new blossoms open
- Use 1.5 kg Blossom Protect together with 6.0 kg Buffer Protect NT™ for trees of 2 m canopy height
- Adjust the amount of product applied depending on the canopy height
- Reduce number of applications to 2 when applying to varieties susceptible to russeting
- Tank-mixtures possible with wettable sulphur, fluopyram, anilinopyrimidines and some DMI. Other fungicides have to be applied separately from treatments with Blossom Protect the day before or 2 days after the application of Blossom Protect. Exception: lime sulfur can be applied 6 hrs after Blossom Protect. Contact your Nufarm Horticulture Specialist for more information on tank-mix partners.
- Maximum storage period of 18 months at room temperature (20°C) or 30 months at cool storage (8°C) from the manufacturing date
- Add sufficient water to the tank, do not use hot water
- Add Blossom Protect to the water, while stirring
- Do not prepare highly concentrated pre-mixtures of Blossom Protect



Technical information

CHEMICAL CLASS

- N/A – Biological

ACTIVE INGREDIENTS

- *Aureobasidium pullulans*

PACKAGING

- 10 x 1.5 kg Blossom Protect
- 6 kg Buffer Protect NT

RAINFAST

- 3 hours

PCP

- 30552

**BIOLOGICAL
FUNGICIDE**

Approved for organic production

**NUFARMER
NATION**

SAVE UP TO 10%

Specific crop usage information

DISEASE CONTROLLED RATE APPLICATION INFORMATION

BEARING AND NON-BEARING POME FRUIT

<p>Fire blight (<i>Erwinia amylovora</i>)</p>	<p>1 m canopy height: 0.75 kg/ha (500 L/ha water volume) 0.3 kg/ac. (202 L/ac. water volume) 2 m canopy height: 1.5 kg/ha (1,000 L/ha water volume) 0.6 kg/ac. (400 L/ac. water volume)</p>	<p>According to phenology: apply up to 4 times at 10%, 40%, 70% and 90% open blossoms (BBCH 61-69) According to a forecast system (e.g. Maryblyt): apply when model indicates risk of infection Do not make more than 5 applications per season The solution should be stirred during application For best results apply in the evening The pH of the spraying suspension shall be adjusted using the buffering agent, Buffer Protect. Prepare 0.6% (w/v) Buffer Protect NT in water, then add Blossom Protect at a rate of 0.15% (w/v).</p>
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Excalia® is a highly effective foliar fungicide for use in apples to control powdery mildew and scab and in sugar beets to control rhizoctonia.

Excalia®

Benefits

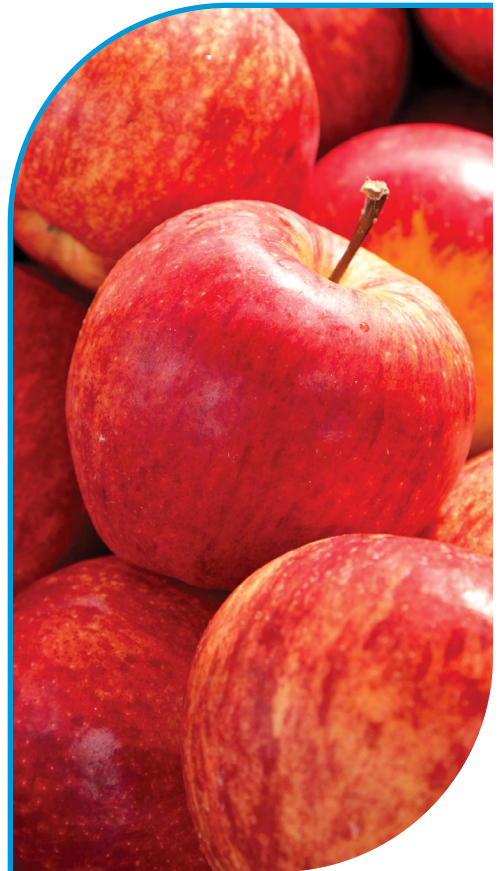
- Easy to handle and mix
- Tank-mix flexibility with several products
- Highly effective protective and post-infection activity against primary scab
- Translaminar movement through the leaf

Registered crops

- Pear
- Pome Fruit
- Sugar beet

General usage information

- Excalia should be used as part of a rotation in a resistance management program alternating with fungicides from different groups targeting the same pathogen
- Tank-mix only with a non-group 7 fungicide that targets the same pathogen
- Always adhere to the re-entry interval and limit the number of applications for each crop listed on the label
- When targeting powdery mildew a silicone surfactant (Xiameter) must be used at 0.03–0.06% v/v
- For more information or questions on specific applications or tank-mix compatibility contact the Nufarm Horticulture Specialist



Technical information

CHEMICAL CLASS

- Group 7

ACTIVE INGREDIENTS

- Inpyrfluxam 31.25%

PACKAGING

- 8 x 475 mL case

RAINFAST

- 1 hour

PCP

- 33819

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NATION**

SAVE UP TO 10%

Specific crop usage information

DISEASE CONTROLLED RATE PHI APPLICATION INFORMATION

POME FRUIT

Apple scab (<i>Venturia inaequalis</i>) Powdery mildew (<i>Podosphaera leucotricha</i>)	146–292 mL/ha (59–118 mL/ac.)		Make applications from green tip to petal fall with a re-treatment interval of 10 days Do not make more than 2 applications per season Do not apply prior to green tip or after petal fall Do not apply more than 584 mL/ha (173 mL/ac.) per season
Cedar-apple rust (<i>Gymnosporangium juniperi-virginianae</i>)	146–219 mL/ha (59–89 mL/ac.)		FOR POWDERY MILDEW Application must include an adjuvant at their recommended dose

Parasol® FL is one of the smallest and most consistent copper particle size formulations available. It disperses effortlessly in water providing protection from disease.

Parasol® FL

Benefits

- Easy to handle and mix
- Has a higher Metallic Copper Equivalent (MCE) than some other coppers on the market providing optimal prevention of tough diseases
- Superior formulation stays in suspension and quickly disperses in water
- Highly compatible with other products
- Superior rainfastness
- One of the smallest and most consistent sizes of copper particles available in Canada

Registered crops

- | | |
|-----------------------------|-------------|
| • Apple | • Nectarine |
| • Apricot | • Peach |
| • Bean | • Pears |
| • Cherries (sweet and sour) | • Pepper |
| • Cucumber | • Potato |
| • Filberts | • Tomato |
| • Hazelnut | |

General usage information

- Use as a preventative/protective fungicide spray
- Use on a 7-14 day interval depending on disease conditions
- Adaptable for spraying with all types of equipment
- No surfactants needed
- No buffer zone required when applied as spot treatment



Technical information

CHEMICAL CLASS

- M1 fungicide

ACTIVE INGREDIENTS

- copper hydroxide 24.4%

PACKAGING

- 2 x 10 L case

RAINFAST

- 2 hours

PCP

- 25901

Specific crop usage information

DISEASE CONTROLLED	RATE	PHI	APPLICATION INFORMATION
APPLE TREES, PEAR TREES			
Fire blight (<i>Erwinia amylovora</i>) Bacterial blight (<i>Pseudomonas syringae</i>)	4.7 L/ha (1.9 L/ac.)	2	Apply a dormant application in sufficient water for complete coverage Make first application in early spring at silvertip Make second application after harvest when 50% of the leaves have dropped
APRICOT TREES			
Coryneum blight (<i>Coryneum carpophilum</i>)	4.5–6.7 L/ha (1.9–2.7 L/ac.)	2	Apply as a dormant application before foliage buds swell
CHERRY TREES (sweet and sour)			
Bacterial canker (<i>Pseudomonas spp.</i>)	8.8–13.1 L/ha (3.6–5.3 L/ac.)	2	Make first application in early spring before bud break Make second application after harvest when 75% of the leaves have dropped Use the low rate on small trees and the high rate on large trees
PEACH TREES, NECTARINE TREES			
Coryneum blight (<i>Coryneum carpophilum</i>) Leaf curl (<i>Taphrina deformans</i>)	Before bud swell in the spring: 4.5–6.7 L/ha (1.8–2.7 L/ac.) After leaf fall: 4.5–8.9 L/ha (1.8–3.6 L/ac.)	2	Make first application, using the low rate, in the spring before bud swell Make second application, using the high rate, in the fall after harvest and leaf drop Use the high rate when rainfall is very heavy and disease pressure is high

Accede® expands the apple thinning window, adding flexible timing and reducing reliance on early thinning.

Accede® PGR

Benefits

- Extends the chemical thinning window later into the season when king fruit are up to 25 mm in diameter
- Reduces hand thinning costs
- Improves return bloom
- Improves packout and marketable yield
- Flexible rates to match thinning needs

Registered crops

- Apple

General usage information

- Maximum rate of 1,000 g/ha (max 2 applications per season)
- Adequate spray volume is required for thorough coverage
- Accede is most effective when the king fruitlet is 15–20 mm in diameter
- Maintain a solution pH between 5 and 8
- The addition of a non-ionic surfactant @ 0.125% v/v may increase performance and consistency
- Allow 7–10 days to observe effects of application
- For more information on use pattern or rates based on ppm please refer to the Accede label or contact the Nufarm Horticulture Specialist



Technical information

CHEMICAL CLASS

- Plant Growth Regulator

ACTIVE INGREDIENTS

- 1- aminocyclopropanecarboxylic acid (ACC) 40.0%

PACKAGING

- 4 x 567 g case

RAINFAST

- 8 hours

PCP

- 34861

**NUFARMER
NATION**

SAVE UP TO 10%

Specific crop usage information

OBJECTIVE	RATE	APPLICATION INFORMATION
APPLE		
Fruit thinning Enhanced return bloom	500-1,000 g/ha (200-400 ppm)	<p>Apply when king fruitlet is 8-25 mm in diameter</p> <p>Direct 80% of the spray to the upper two-thirds of the tree canopy</p> <p>Applications will be most effective when the maximum temperature on the day of application and for the following 2-3 days is 18 °C or higher</p> <p>Avoid spraying Accede when ambient temperatures exceed 30 °C on the day of application and for the following 2-3 days</p> <p>Do not make more than 2 applications per season</p> <p>Do not exceed 2,000 g/ha per season</p> <p>Allow 7-10 days to observe the effect of any thinning product before making another application</p> <p>Use higher rates in orchards that have a history of being difficult to thin, in varieties known to be difficult to thin.</p> <p>Accede may be used in a program with other thinning products such as MaxCel® PGR</p>

MaxCel® PGR delivers precision thinning, enhanced fruit size and return bloom for top quality apples.

MaxCel® PGR

Benefits

- Reduces hand thinning costs
- Promotes cell division and fruit growth beyond the thinning effect producing larger apples
- Improves return bloom
- Improves packout and marketable yield
- Does not stress the tree or cause stunting of fruit, even with multiple year use

Registered crops

- Apple
- Pear

General usage information

- Maximum rate of 22.5 L/ha (9.1 L/ac.) per season
- Adequate spray volume is required for thorough coverage (1,000 L/ha or 400 L/ac.)
- The optimum thinning application timing is between 8-14 mm fruit size
- The water spray solution pH should be as close to neutral as possible, and should not exceed pH 8.5
- Allow 7-10 days to observe the effects of application
- For more information on use pattern information or rates based on ppm please refer to the MaxCel label or contact the Nufarm Horticulture Specialist



Technical information

CHEMICAL CLASS

- Plant Growth Regulator

ACTIVE INGREDIENTS

- 6-Benzyladenine (6-BA) 1.9%

PACKAGING

- 10 x 1 L case
- 2 x 5 L case

RAINFAST

- 6 hours

PCP

- 28851

**NUFARMER
NATION**

SAVE UP TO 10%

Specific crop usage information

OBJECTIVE	RATE	PHI	APPLICATION INFORMATION
APPLE			
Size enhancement Enhanced return bloom	2.5 L/ha (1 L/ac.) 50 ppm	28	Make 2–4 applications starting at petal fall (3–10 day intervals) This rate is used for sizing (little to no thinning should occur at this rate)
Use for moderate thinning on easier to thin varieties such as McIntosh	3.75 L/ha (1.5 L/ac.) 75 ppm		Ideal thinning window is between 5–15 mm. MaxCel can be used at any time during this window.
Ideal rate for most thinning used on varieties such as Gala and Empire	5 L/ha (2 L/ac.) 100 ppm		The optimum timing for MaxCel to be used is at the 8–14 mm range
Use on hard to thin varieties (Fuji and Golden Delicious) or for a more aggressive thinning effect on varieties such as Gala	6.25 L/ha (2.5 L/ac.) 125 ppm		Apply MaxCel at the beginning of a warming trend when temperatures the few days following application are expected to be above 18 °C
Use in orchards with hard to thin varieties or in orchards with a history of difficulty thinning	7.5–10 L/ha (3–4 L/ac.) 150–200 ppm		Increased thinning will occur when conditions are cloudy and warm
Increase lateral bud break and branching Improve branch angles and tree structure	250–500 ppm		Make first application after trees have reached a height at which lateral branching is desired Make 1–4 applications at targeted sites where additional branching is desired Applications can be made each time the main leader adds 12–15 cm of new growth or about every 10–14 days Deliver 2–4 mL: spray solution to the shoot tip of each tree targeting the uppermost leaves that are still expanding Do not tank-mix with streptomycin or apply streptomycin on the same day
PEAR			
Size enhancement	2.5–5 L/ha (1–2 L/ac.) 50–100 ppm	28	Use this rate for sizing pears (little to no thinning should occur at this rate)
Thinning Enhanced return bloom	6.25–10 L/ha (2.5–4 L/ac.) 125–200 ppm		The optimum timing for MaxCel to be used is at the 8–14 mm range

All rates in the table above are based on a water volume of 1,000 L/ha (400 L/ac.).
Please refer to chart for ppm information.

COMPATIBILITY

MaxCel is compatible with some thinners and pesticides including formulations of SEVIN® and NAA. If the crop response from mixing MaxCel with another product is unknown, then a small scale test should be conducted. Do not apply tank-mix combinations unless your previous experience indicates the mixture is effective and will not result in application difficulties or result in plant injury. Please consult with a Nufarm Horticulture Specialist if you have questions on mixing MaxCel with other products.

If tank-mixing with NAA, do not use on Fuji, Mutsu, Golden Delicious, Red Delicious or varieties known to throw pygmy fruit – please consult the Horticulture Specialist at Nufarm if you are new to this tank-mix combination for more details on using MaxCel combined with NAA and concerns about pygmy fruit.

Volume of MaxCel PGR per volume of spray required to obtain given ppm concentrations

SOLUTION VOLUME	CONCENTRATION								
	Litres (L)	10 ppm	25 ppm	50 ppm	75 ppm	100 ppm	125 ppm	150 ppm	175 ppm
380	190 mL	475 mL	950 mL	1.42 L	1.9 L*	2.38 L	2.85 L	3.33 L	3.8 L
1,000	470 mL	1.25 L	2.5 L	3.75 L	5 L	6.25 L	7.50 L	8.75 L	10 L

*For a 100 ppm solution applied to 0.4 ha (1 ac.)

Promalin® PGR improves size and fruit shape (typiness) of many apple varieties by elongating fruit and giving them more pronounced calyx lobes.

Promalin® PGR

Benefits

- Increases fruit size and shape
- Delivers consistent results
- Provides an excellent return on investment
- Does not require an adjuvant

Registered crops

- Apple
- Pear
- Sweet cherry (non-bearing)

General usage information

- Adequate spray volume is required for thorough coverage (1,000 L/ha or 400 L/ac.)
- Thorough crop coverage is required for desired results
- Do not apply when temperatures are below freezing
- The spray solution pH should be neutral and not exceed 8.5
- Promalin should be applied alone
- Applications should be made during slow drying conditions to maximize absorption



Technical information

CHEMICAL CLASS

- Plant Growth Regulator

ACTIVE INGREDIENTS

- 6-Benzyladenine (6-BA) 1.8%
- Gibberellic Acid (GA4+7) 1.8%

PACKAGING

- 10 x 500 mL case

RAINFAST

- 6 hours

PCP

- 16636

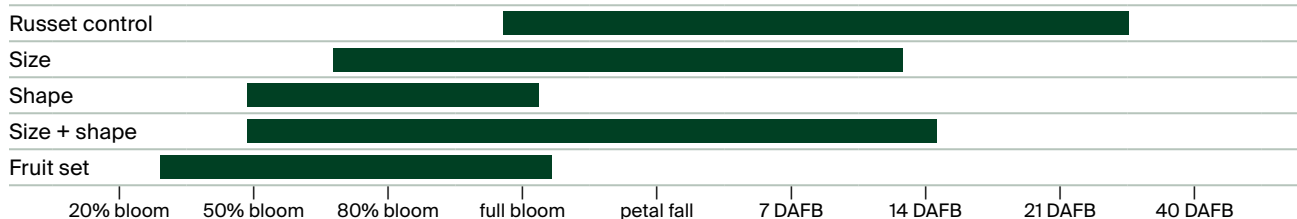
Specific crop usage information

OBJECTIVE	RATE	PHI	APPLICATION INFORMATION
APPLE			
Improve typiness Single application	1.2-2.3 L/ha (0.5-0.9 L/ac.)	28	Apply at early king bloom to early stages of petal fall (optimal timing is 80% king bloom)
Improve typiness Two applications	0.6-1.2 L/ha (0.2-0.5 L/ac.)		Make first application at early king bloom and the second 3-21 days later, when the remainder of the canopy comes into bloom
Reduce russet	250-500 mL/ha (100-200 mL/ac.)		Make a maximum of 4 applications starting between the bloom and petal fall (closer to petal fall is ideal) Follow up with sequential applications on a 7-12 day interval Earlier applications, shorter intervals and higher rates are recommended when conditions are long, cold and wet
Increase fruit set after a frost	1.2-2.3 L/ha (0.5-0.9 L/ac.)		Apply within 24 hours after a frost event when the crop is between early bloom and full bloom Allow trees to thaw before making application The trees MUST be in the bloom stage for this treatment to be effective
Branching (non-bearing) - foliar application (nursery and orchard)	125-500 ppm (62.5-250 mL Promalin per 10 L of spray solution)		For orchard trees, apply at 1-3 in. of new terminal growth For nursery stock, treat after trees have reached a terminal height at which lateral branching is desired
Branching (non-bearing) - latex application (nursery and orchard)	100-165.6 mL Promalin per 500 mL latex paint		Apply in the spring when terminal buds begin to swell but before shoots emerge

PEAR			
Increase fruit set	250 mL/ha (100 mL/ac.)	365	Make first application at 10-30% open flowers on the old wood Make second application between full bloom and petal fall
Branching (non-bearing) - foliar application (nursery and orchard)	250-1,000 ppm (125-500 mL Promalin per 10 L of spray solution)		For orchard trees, apply at 1-3 in. of new terminal growth For nursery stock, treat after trees have reached a terminal height at which lateral branching is desired

SWEET CHERRIES (non-bearing)			
Branching - foliar application (nursery only)	250-1,000 ppm (125-500 mL Promalin per 10 L of spray solution)	365	Treat after trees have reached a terminal height at which lateral branching is desired
Branching (non-bearing) - latex application (orchard only)	100-165.6 mL Promalin per 500 mL latex paint		Apply in the spring when terminal buds begin to swell but before shoots emerge

Optimum timings for Promalin applications



Note: DAFB = days after full bloom; Optimum timings based on 20 years of trials and commercial experience

OBJECTIVE	APPLICATION INFORMATION
USE MAXCEL AND PROMALIN COMBINED (for an optimal thinning, sizing and fruit finish program)	
Typy and well sized apples	Follow the Promalin recommendations above for improved typiness Apply the MaxCel treatment at 10-12 mm fruit size at 3.75-6.25 L/ha (1.5-2.5 L/ac.), depending on the variety
Well sized fruit with reduced russet	Follow the recommendations above for russet control Apply the MaxCel treatment at 8-12 mm fruit size at 3.75-6.25 L/ha (1.5-2.5 L/ac.), depending on the variety

The combination of these products in a program have proven to increase fruit quality and thus increasing overall packout. Do not use MaxCel and Promalin as a tank-mix.



Harvest the potential™ of your apple crop with ReTain®, a plant growth regulator that temporarily inhibits ethylene production to slow fruit maturation, ripening and fruit drop.

ReTain® PGR

Benefits

- Keeps fruit hanging longer
- Reduces watercore and stem bowl cracking
- Maintains and improves fruit firmness
- Provides greater uniformity in maturity across all fruit at each pick
- Increases fruit size as fruit grows longer
- Increased fruit set on cherries

Registered crops

- Apple
- Sweet cherry

General usage information

- Adequate spray volume is required for thorough coverage (935–1,870 L/ha)
- A silicone surfactant must be used when applying ReTain – Sylgard® OFX-0309 Fluid at 0.05–0.1% v/v
- Use the lower rate of surfactant when trees are stressed, or if there are extreme weather conditions like drought or excessive heat
- The spray solution pH should be neutral and not exceed 8.5
- If applying to trees under stress due to water, heat, disease or poor nutrition – be aware that the benefits and efficacy of ReTain may be reduced in these circumstances
- Please consult the Horticulture Specialist at Nufarm for specific use pattern information related to specific varieties and growing areas
- Do not mix ReTain with any other products other than Sylgard OFX-0309 Fluid
- Do not apply in high heat
- We do not recommend applying close application intervals of ReTain and Captan and/or Maestro®. Please contact Nufarm for more details and support with respect to using ReTain and these fungicides safely.



Technical information

CHEMICAL CLASS

- Plant Growth Regulator

ACTIVE INGREDIENTS

- Aviglycine hydrochloride (AVG) 15%

PACKAGING

- 20 x 333 g case

RAINFAST

- 8 hours

PCP

- 25609

Specific crop usage information

OBJECTIVE RATE PHI APPLICATION INFORMATION

APPLE

<p>Delayed fruit maturity Improved harvest management Reduced pre-harvest fruit drop Additional time for increase in fruit size Additional time for colour development Maintenance of fruit firmness Improved fruit quality Enhanced storage quality</p>	<p>1 pouch/0.4 ha (1 pouch/ac.)</p>	<p>7</p>	<p>Apply prior to the anticipated beginning of the normal harvest for the specific variety you are spraying. Applying ReTain will help delay and better manage harvest. Refer to label for specific application timing based on apple variety.</p> <p>When temperatures are high (above 32 °C) it is important to use the 0.05% v/v rate of a silicone surfactant (Sylgard OFX-0309 Fluid)</p>
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PLEASE NOTE

Under difficult colouring conditions, colour development of certain bi-colour apple cultivars such as Gala and Honeycrisp™ may be delayed when ReTain is applied at 1 pouch per 0.4 hectare (1 acre)

SWEET CHERRY

<p>Fruit set</p>	<p>1 pouch/0.4 ha (1 pouch/ac.)</p>	<p>7</p>	<p>Make a single application of ReTain during bloom. Efficacy requires thorough coverage of the product on the flower buds and flowers.</p> <p>Use appropriate water volume based on tree size</p> <p>Applications between balloon stage to first bloom are more effective than earlier or later applications</p> <p>Do not apply after petal fall</p> <p>Do not apply when fruit are present</p> <p>ReTain on cherries is not meant to be used as a harvest management aid</p>
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Danitol® insecticide is an effective option to control spotted wing drosophila (SWD), as well as other tough insects in horticulture crops.

Danitol®

Benefits

- Trusted product for control of tough insects including spotted wing drosophila
- Broad label of insects controlled on multiple crops
- Tank-mix flexibility with several products

Registered crops

- Bushberry
- Caneberry
- Cucurbit vegetables
- Fruiting vegetables
- Pome fruit
- Stone fruit
- Succulent peas
- Tree nuts

General usage information

- Always adhere to the limit of applications per crop
- It is recommended that no more than 2 Danitol applications be made per season as part of a resistance management program. Use non-pyrethroid products at other timings to control pests.
- Always refer to and follow the label for re-entry interval (REI) and pre-harvest interval (PHI) for each registered crop
- Do not use in greenhouses
- Follow label instructions regarding restrictions for applications during crop blooming period



Technical information

CHEMICAL CLASS

- Group 3

ACTIVE INGREDIENTS

- fenpropathrin 30.9%

PACKAGING

- 4 x 3.785 L case

RAINFAST

- Avoid application when heavy rainfall is in the forecast

PCP

- 33817

**NUFARMER
NATION**

SAVE UP TO 10%

Specific crop usage information

INSECT CONTROLLED	RATE	APPLICATION INFORMATION
POME FRUIT		
Apple maggot Codling moth European red mite Japanese beetle Leafhopper Oblique-banded leafroller Oriental fruitmoth Red-banded leafroller Spotted tentiform leafminer Spotted-wing drosophila Stink bugs (excluding BMSB) Tufted apple budmoth Two-spotted spider mite	779–1,559 mL/ha (315–630 mL/ac.)	Begin applications at delayed dormant through first cover as common to the production area and the target pest Apply by ground with airblast equipment as a full coverage spray Danitol spray may be mixed with and/or alternated with commonly used insecticides and miticides to comply with local IPM and resistance management programs Do not make more than 1 application per season Do not apply more than 1,556 mL/ha per season CODLING MOTH Make application at Biofix + 250 degree days OVERWINTERING OBLIQUE-BANDED LEAFROLLERS Apply at pink stage of tree growth
Spotted lanternfly	1,169–1,559 mL/ha (473–631 mL/ac.)	
FOR USE ON PEARS ONLY Green fruitworm Pear psylla (suppression)	779–1,559 mL/ha (315–630 mL/ac.)	PEAR PSYLLA (OVERWINTERING ADULTS) Apply in a minimum of 750 L/ha by ground with airblast equipment in the dormant/delayed period. Apply with a petroleum spray oil as recommended on the spray oil label.
STONE FRUIT		
Codling moth Japanese beetle Leafhopper Oblique-banded leafroller Peach twig borer Spotted-wing drosophila Tarnished plant bug Two-spotted spider mite	779–1,559 mL/ha (315–630 mL/ac.)	Apply by ground in a minimum water volume of 1,000 L/ha (404 L/ac.) with airblast equipment as a full coverage spray Ensure thorough coverage Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage. Begin applications as common to the production area and the target pest Do not make more than 1 application per season Do not apply more than 1,559 mL/ha per season
Spotted lanternfly	1,169–1,559 mL/ha (473–631 mL/ac.)	

Important re-entry information for Danitol

CROP	POST-APPLICATION ACTIVITY	RESTRICTED-ENTRY INTERVAL (REI) AND/OR PRE-HARVEST INTERVAL (PHI)
POME AND STONE FRUIT CROP GROUPS	Thinning	23 days
	Hand harvesting, mechanically assisted harvesting	16 days
	Mechanical harvesting of pome fruit	14 days
	Scouting, hand pruning	7 days
	Mechanical harvesting of stone fruit	3 days
	All other activities	24 hours

DiPel® 2X DF is a leading biological insecticide with a high potency resistance management tool for proven control of Lepidoptera pests in both conventional and organic cropping systems.

DiPel® 2X DF

Benefits

- The most potent Bt insecticide on the market with a unique mode of action, making it an excellent tool for managing resistance
- Immediately deters insects from feeding – death occurs within 1-3 days
- 36 month shelf life when stored at room temperature
- Not harmful to bees or beneficial insects making it a great tool for spring feeding caterpillars
- Very low REI of 4 hours or until spray is dry

Registered crops

- | | | |
|------------------------------------|--------------------------|------------------------------|
| • Apple | • Corn (sweet and field) | • Ornamental and shade trees |
| • Asian radish | • Cranberry | • Parsley |
| • Berries and small fruit | • Ginseng | • Pear |
| • Blueberry (highbush and lowbush) | • Grape | • Potato |
| • Bok choy | • Greenhouse herbs | • Raspberry |
| • Broccoli | • Greenhouse ornamentals | • Sea buckthorn |
| • Cabbage | • Greenhouse vegetables | • Spinach |
| • Cauliflower | • Herbs and spices | • Stone fruit |
| • Chinese broccoli | • Kale | • Sunflower |
| • Chinese cabbage | • Lettuce | • Timothy |
| • Chokecherry | • Mustard greens | • Tobacco |
| • Collards | • Nut crops | • Tomato |
| | | • Turnip greens |

For a complete list of all crops registered and what is included for each crop group refer to the label

General usage information

- OMRI-certified for use in organic production
- Apply when insect pests are small (egg hatch to early instars) before crop damage occurs
- Apply using sufficient water volume for thorough crop coverage
- Repeat at an interval sufficient to maintain control, usually 3-14 days
- Use with a water pH 7 or lower
- **Use with a non-ionic surfactant for hard to wet foliage (such as cabbage or broccoli)**



Technical information

CHEMICAL CLASS

- Group 11

ACTIVE INGREDIENTS

- *Bacillus thuringiensis, var. kurstaki strain ABTS-351 (57%)*

PACKAGING

- 24 x 0.5 kg case
- 5 kg bag

RAINFAST

- Avoid application when heavy rainfall is in the forecast

PCP

- 26508



Approved for organic production

Specific crop usage information

INSECT CONTROLLED	RATE	APPLICATION INFORMATION
APPLE, PEAR		
Leafrollers* (Fruitree, European, Oblique-banded, Three-lined)	1,125–1,675 g/ha (455–678 g/ac.)	*Apply with a spray solution of 600–800 L/ha at pink stage and, if populations are heavy, at petal fall using an air-blast orchard sprayer. Weekly applications may be necessary if egg hatch is asynchronous. Best results are obtained if applications are made in the evening or on a cloudy day
Winter moth** (not registered for pears)	280 g/ha (113 g/ac.)	**For use in combination with Ripcord™ See the respective labels for specific instructions Follow the most restrictive label
STONE FRUIT – APRICOT, CHERRY PEACH PLUM/PRUNE		
Fruitworm	1,125–1,675 g/ha (455–678 g/ac.)	Apply in 2,000 L/ha at pink stage to petal fall
Leafrollers (European, Fruitree, Oblique-banded, Three-lined)		Apply in 600–800 L/ha at pink stage and, if populations are heavy, at petal fall using an air-blast orchard sprayer. Weekly applications may be necessary if egg hatch is asynchronous.

XenTari® WG is a leading biological Bt insecticide that controls a broad range of pests with proven control on tomato looper in greenhouses, as well as armyworm and diamondback moth control in conventional and organic operations.

XenTari® WG

Benefits

- Unique mode of action making it an excellent tool for managing resistance
- Immediately deters insects from feeding – death occurs within 1-3 days
- Excellent product to rotate with conventional insecticides
- Not harmful to bees or beneficial insects making it a great tool for spring feeding caterpillars
- Very low REI of 4 hours or until spray is dry

Registered crops

- | | | | |
|---------------------------------------|----------------------------------|----------------------------------|-------------------------------|
| • Artichoke | • Fennel | • Greenhouse low growing berries | • Pome fruit |
| • Beans (dry and succulent) | • Fruiting vegetables | • Greenhouse ornamentals | • Poppy seed |
| • Brassica leafy greens | • Garden beets | • Hare's ear mustard | • Radish (including oriental) |
| • Brassica vegetables (head and stem) | • Ginseng | • Herbs and spices | • Rhubarb |
| • Bulb vegetables | • Grapes | • Hops | • Rutabaga |
| • Camelina | • Greenhouse beans | • Horseradish | • Sea kale |
| • Canola | • Greenhouse caneberries | • Kohlrabi | • Stone fruit |
| • Cardoon | • Greenhouse cucumber | • Leafy greens | • Sugar beets |
| • Celery | • Greenhouse fruiting vegetables | • Mustard seed | • Sweet potatoes |
| • Celtuce | • Greenhouse lettuce | • Oil radish | • Sweet rocket |
| • Chinese celery | | • Outdoor ornamentals | • Tobacco |
| | | | • Tree nuts |
| | | | • Turnip |

For a complete list of all crops registered and what is included for each crop group refer to the label

General usage information

- Apply when insect pests are small (egg hatch to early instars) before crop damage occurs
- Apply in sufficient water volume for thorough crop coverage
- Use with a water pH 7 or lower
- Use a non-ionic surfactant for hard to wet foliage (such as cabbage or broccoli)
- XenTari is OMRI certified for use in organic production



Technical information

CHEMICAL CLASS

- Group 11

ACTIVE INGREDIENTS

- *Bacillus thuringiensis subsp. aizawai, Strain ABTS-1857 (48.1%)*

PACKAGING

- 24 x 500 g case

RAINFAST

- Avoid application when heavy rainfall is in the forecast

PCP

- 31557



Approved for organic production

Specific crop usage information

INSECT CONTROLLED	RATE	APPLICATION INFORMATION
POME FRUIT		
Cankerworms Codling moth Fruittree leafroller Oblique-banded leafroller Oriental fruit moth Redbanded leafroller Tufted apple budworm Varigated leafroller Winter moth	500-1,600 g/ha (202-648 g/ac.)	Apply using 500-1,600 L/ha (202-648 L/ac.) at pink stage and if populations are heavy at petal fall If egg hatch is asynchronous weekly applications may be necessary Follow general application instructions if multiple applications are needed
STONE FRUIT		
Cankerworms Fruittree leafroller Oblique-banded leafroller Oriental fruit moth Varigated leafroller	500-1,600 g/ha (202-648 g/ac.)	Apply using 500-1,600 L/ha (202-648 L/ac.) at pink stage and if populations are heavy at petal fall If egg hatch is asynchronous weekly applications may be necessary Follow general application instructions if multiple applications are needed


Always read and follow the product label for more detailed information on control of weeds, insects or disease, application directions, and use precautions.

Please refer to label for more information including future label expansions that may include new crops, pests and use patterns.

Refer to the product labels for re-entry periods.

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NUFARMER NATION

ROW CROP AND HORTICULTURE

Join the 2026 Nufarmer Nation Grower Rewards Program and start saving up to 10% on Nufarm products.

Together, let's build a community of farmers striving to grow more bushels per acre in the most efficient way possible.

This program will go beyond simple rebates. Start saving now, and down the road receive exclusive access to member only events, early access to new technology, and fun Nufarmer Nation merchandise.

HOW IT WORKS.

STEP 1 Purchase any of the Nufarm products listed in the chart below to build purchase level goals*.

STEP 2 Save up to 10% on the Nufarm PAYMENT BRANDS listed in the left hand column in the chart below.

Rewards earned on these PAYMENT BRANDS	PURCHASE LEVEL*			Increase your purchase level with BUILDER PRODUCTS**
	≥ \$10,000	≥ \$20,000	≥ \$40,000	
Bifecta® EZ BlackHawk® Fierce® EZ TriActor® EZ TruSlate® Pro		SAVE 2%	SAVE 5%	Astir® Boost® Brands Credit® Brands Chaperone® Idol® Parasol® Brands ReTain® PGR Rival® EC Statue™ Valtera® EZ
Accede® PGR Blossom Protect™ Buffer Protect NT™ Chateau® EZ Danitol® Excalia® MaxCel® PGR Proliant® PGR Quash® SC	SAVE 3%	SAVE 5%	SAVE 10%	

Products must be purchased between September 1, 2025 and September 30, 2026. No program payments under \$200 will be issued by Nufarm.

*Purchase level based on suggested retail price (SRP).

**Build your purchase level to increase your rewards and receive a higher percentage savings.

JOIN THE NATION.

VISIT [NUFARM.CA](https://www.nufarm.ca) TO REGISTER AND CALCULATE YOUR SAVINGS.