

LIFEGARD®

+ BIOLOGICAL PLANT
ACTIVATOR



LIFEGARD BIOLOGICAL PLANT ACTIVATOR

Healthy plants all have some ability to protect themselves against invading pathogens. Plants, however, need time to react to the invasion and often the pathogen overwhelms the plant too quickly to make a difference. LifeGard® gives plants an early warning signal and the plant switches on immune defenses before pathogen invasion.

LifeGard® is a naturally occurring beneficial bacteria called *Bacillus mycoides* isolate J (BmJ). This beneficial bacterium triggers a plant's built in immune system which gives the plant time to build its defenses, while limiting infection and development of bacterial and fungal diseases.

LifeGard® plant activator has a unique mode of action that reduces the incidence and severity of crop diseases. When added to grower IPM crop health programs, LifeGard® adds a layer of protection by activating the plant's immune functions. Plants are primed within 3 hours of application and remain primed for up to 18 days.

Active Ingredient:

Bacillus mycoides isolate J 40%

Key Registered Crops:

Potatoes, grapes, apples, blueberries, tomatoes, peppers, strawberries, caneberries

FRAC Group:

P 06

Packaging Size:

20 x 454g

LifeGard® is most effective when used in conjunction or alternation with fungicides having other modes of action such as triazoles, EBDCs, and Qol class fungicides that are registered for the control of labeled diseases.

RATES TABLE

Volume of water:	L/Ha G/Ac	≤210 ≤22	250 27	300 32	350 37	400 43	500 53	750 80	1000 107
LifeGard® rate:	g/Ha g/Ac	70 28.3	83 33.6	100 40.5	117 47.3	133 53.8	167 67.6	250 101.2	333 134.8
Ha / Pouch (454g):	Ha/Pouch Ac/Pouch	6.49 16.03	5.47 13.52	4.54 11.22	3.88 9.59	3.41 8.44	2.72 6.72	1.82 4.49	1.36 3.37

LifeGard® is residue exempt, with a short 4-hour re-entry interval, is organic certified and is safe on the environment. Pre-harvest interval is 0 days

CROP	TARGET DISEASE	INTERVAL	ADDITIONAL INFORMATION					
Grapes	Downy Mildew	7-21 days	Make first applications 2-3 weeks before bloom and prior to infection. Repeat applications at 7–21-day intervals as part of a rotational program with fungicides labelled for this use. Continue applications every 2 to 4 weeks after fruit set.					
	Powdery Mildew							
	Black Rot	7-14 days						
	Phomopsis Fruit Rot							
Apples	Fire Blight	7-14 days	Begin applications when green tissue is present, prior to infection period. For suppression of shoot blight, start applications after petal fall and reapply 7-14 days during stem elongation. Do not apply during bloom period (pink stage to petal fall). Apply starting at petal fall through cover sprays on a 7- to 14-day schedule. Apply in an alternating or tank-mix program with labeled fungicides as part of a disease management					
	Apple Scab							
	Powdery Mildew							
	Sooty Blotch	10-14 days						
	Flyspeck							
Peppers & Tomatoes (all types) (field and greenhouse)	Bacterial Leaf Spot	7-14 days	For direct seeded crops: Apply any time following emergence of first true leaf. For transplants: Begin applications immediately before or after transplanting. Transplants may be treated in the greenhouse or nursery prior to transplanting in the field. For bacterial leaf spot, early blight, and late blight repeat application at 7-day intervals.					
	Early Blight							
	Late Blight							
	Bacterial Speck (Tomato)							
Blueberries	Mummy Berry		7-14 days	Begin as a preventative spray. Repeat every 7-14 days as part of a rotational program with fungicides labeled for this use.				
	Botrytis							
Raspberries & Blackberries	Anthraco-nose				7-14 days	Begin as a preventative spray. Repeat every 7-14 days as part of a rotational program with fungicides labeled for this use.		
	Botrytis							
Strawberries	Anthraco-nose						7-14 days	Begin as a preventative spray. Repeat every 7-14 days as part of a rotational program with fungicides labeled for this use.
	Powdery Mildew							
	Common Leaf Spot							
	Early Blight	7-14 days						
Late Blight								
White Mold								
Cannabis & Hemp (commercial use) (grown indoors or in field)	Sclerotinia White Mold	7-12 days	Begin as a preventative spray. Apply 7-to-14-day intervals when only LifeGard®WG will be applied. Use shorter interval when high disease pressure is anticipated. When used in biorational program with fungicides labeled for this use repeat 7-21 days.					
	Botrytis							
Always read and follow label instructions.		LifeGard® is a registered trademark of Certis Biologicals™						