

# FLUNIVAP-50% SG

INSECTICIDE  
SOLUBLE GRANULES

VAPCO

Class:  
Pyridinecarboxamide

Systemic insecticide active by both contact and ingestion, translaminar mobility. Inhibits feeding and provides long-term control.

COMPOSITION: Each KG. Contains:

FLONICAMID

50% W/W (A.I)

## PROPERTIES:

**FLUNIVAP-50% SG:** provides control of a variety of aphid and plant bug pests and suppression of some non-aphid pests.

**FLUNIVAP-50% SG:** controls target pests by contact and ingestion provoking rapid and irreversible feeding cessation. Aphids and other insects could remain on the plant until they desiccate.

**FLUNIVAP-50% SG:** residual control of flonicamid has been shown to reduce disease transmission and symptoms, thereby increasing plant health.

## USES AND APPLICATION RATE :

CROPS	PESTS	APPLICATION RATE (/ 20 LT. OF WATER)	MAX. ALLOWED G/ APPLICATION	MAX. ALLOWED G/ YEAR	NUMBER OF APPLICATION PER YEAR	MIN. INTERVAL BETWEEN TREATMENT (DAYS)	SAFETY PERIOD (DAYS)
Broccoli; Brussels Sprouts; Cabbage; Cauliflower; Kohlrabi.	Aphids and Plant Bugs	3 - 4 gm	4	12	3	7	3
	Greenhouse Whitefly	4 gm					
Broccoli, Cabbage, Collards; Cress, Garden; Cress, kale; Mustard Greens; Radish, Leaves; Turnip Watercress.	Aphids and Plant Bugs	3 - 4 gm	4	12	3	7	3
	Greenhouse Whitefly	4 gm					
Cotton	Plant Bugs and Fleahoppers	2.4 - 4 gm	4	12	3	7	30
	Aphids	2 - 4 gm					

• For more details about first aid & precautions please refer to first aid & precautions index.

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<b>Ground Spray:</b> <b>Cucumber;</b> <b>Gherkin;</b> <b>Muskmelon-</b> <b>Cantaloupe,</b> <b>Pumpkin;</b> <b>Squash,</b> <b>Watermelon</b>	Aphids and Plant Bugs	3 - 4 gm	4	12	3	7	3
	Greenhouse Whitefly	4 gm					
<b>Drip Irrigation</b> <b>Cucumber;</b> <b>Gherkin;</b> <b>Muskmelon-</b> <b>Cantaloupe,</b> <b>Pumpkin;</b> <b>Squash,</b> <b>Watermelon</b>	Aphids Plant Bugs Whiteflies Thrips	4 - 6 gm	6	12	2	7	3
<b>Foliar application</b> <b>Greenhouse cucumbers</b>	Aphids Plant Bugs	4 - 6 gm Or 1.85 - 2.85 gm per 100 m <sup>2</sup>	6	12	2	7	3
	Greenhouse Whitefly	6 gm Or 2.85 gm per 100 m <sup>2</sup>					
<b>Application to soil</b> <b>Greenhouse cucumbers</b>	Aphids Plant Bugs Greenhouse Whitefly	6 gm Or 4 gm/ 100 m <sup>2</sup>	6	12	2	7	3
<b>Ground Spray:</b> <b>Eggplant;</b> <b>Tomato;</b> <b>Pepper;</b> <b>Okra;</b>	Aphids, Plant Bugs, Tomato Psyllid	4 - 6 gm	4	12	3	7	3
	Greenhouse Whitefly	4 - 6 gm					
<b>Drip Irrigation:</b> <b>Eggplant;</b> <b>Tomato;</b> <b>Pepper;</b> <b>Okra;</b>	Aphids, Plant Bugs, Tomato Psyllid, Whitefly, Thrips.	4 - 6 gm	6	12	2	7	3

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<b>Foliar application Greenhouse tomato</b>	Aphids Plant Bugs Tomato Psyllid	4 – 6 gm Or 1.85 – 2.85 gm/ 93 m2	6	12	2	7	3
	Greenhouse Whitefly	6 gm Or 2.85 gm / 93 m2					
<b>Foliar application Greenhouse Pepper –</b>	Aphid, Plant bug	4 – 6 gm Or 1.85 – 2.85 gm/ 93 m2	6	12	2	7	3
	Whitefly, Thrips	6 gm Or 2.85 gm / 93 m2					
<b>Hop</b>	Aphid	2.4 - 4 gm	4	12	3	7	10
<b>Celery; Celtuce; Fennel.</b>	Aphids and Plant Bugs	3 - 4 gm	4	12	3	7	3
	Greenhouse Whitefly	4 gm					
<b>Cilantro; Lettuce; Parsley; Purslane; Spinach; Swiss chard</b>	Aphids and Plant Bugs	3 - 4 gm	4	12	3	7	3
	Greenhouse Whitefly	4 gm					
<b>Foliar application Greenhouse Lettuce</b>	Aphids and Plant Bugs	4 gm or 1.85 gm per 100 m2	4	4	1	---	3
<b>Artichoke; Casava; Ginger; Potato; Sweet potato; Turmeric; Yam</b>	Aphids, Plant Bugs and Potato Psyllid	3 - 4 gm	4	12	3	7	7
	Greenhouse Whitefly	4 gm					
<b>Garden Beet; Carrot; Turnip; Chicory; Ginseng; Horseradish; Parsley, Parsnip; Radish; Turnip.</b>	Aphids and Plant Bugs	3 - 4 gm	4	12	3	7	3
	Greenhouse Whitefly	4 gm					

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<b>Apple; Loquat; Mayhaw; Pear; Quince;</b>	Aphids and Plant Bugs	3 - 4 gm	4	12	3	7	21
<b>Apricot; Cherry, Nectarine; Peach; Plum; Prune;</b>	Aphids and Plant Bugs	3 - 4 gm	4	12	3	7	14
<b>Almond; pine; oak; Cashew; Chestnut; Coconut; Hazelnut; Macadamia nut; Pecan; Pistachio; Walnut.</b>	Aphids	3 - 4 gm	4	12	3	7	40
	Plant Bugs	4 gm					
<b>Calamondin; Grapefruit; Kumquat; Lemon; Mandarin; Orange, Pummelo;</b>	Asian Citrus Psyllid	4 - 8 gm	4	12	3	7	3
	Aphids	4 gm					
<b>Grape; kiwifruit,</b>	Aphids Plant Bugs	4 - 6 gm	4	12	3	7	7
	Vine Mealybugs	6 - 8 gm					
<b>Blueberry, Cranberry; Strawberry.</b>	Aphids and Plant Bugs Strawberry Aphid	4 gm	4	12	3	7	3
<b>Rapeseed, Sesame, Canola</b>	Aphids and Plant Bugs, Cabbage Aphid, Green Peach Aphid, Turnip Aphid.	4 gm	4	12	3	7	7
<b>Sunflower, Jojoba, safflower, tea oil plant.</b>	Aphids and Plant Bugs	4 gm	4	12	3	7	3

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Bean; Lupin; Field bean; Kidney bean; Pea; Cowpea; Broad bean; Chickpea; Lentil; Soybean.	Aphids and Plant Bugs	4 gm	4	12	3	7	7
Alfalfa	Aphids and Plant Bugs	4 gm	4	8	2	7	14
Clover	Aphids and Plant Bugs	4 gm	4	8	2	7	60
Spearmint; peppermint	Aphids	3 - 4 gm	4	12	3	14	7

#### CAUTION:

- Used only on above mentioned crops and follow the recommended safety period before harvest.
- Begin applications before populations begin to build and before damage is evident.
- Thorough spray coverage of plant foliage is essential for optimum control. Apply in sufficient water to ensure good coverage;
- Apply when adult whiteflies first appear, before populations increase to damaging levels.
- Do not apply this product in a way that it will contact workers or other persons, either directly or through drift.
- Only protected handlers may be in the area during application.
- Do not store **FLUANIVAP-50% SG** spray mixtures overnight.
- Do not use this product in home gardens.
- Do not use liquid fertilizer as a carrier for **FLUANIVAP-50% SG**.
- Do not apply through any irrigation system physically connected to a public water system.
- Rotate the use of **FLUANIVAP-50% SG** or other group 29 insecticides within a growing season, or among growing seasons, with different groups that control the same pests. Avoid application of more than the maximum seasonal use rate or the total number of consecutive sprays of **FLUANIVAP-50% SG** per season.
- The spray system must be clean and free of residues from previous applications. Fill the spray tank 1/2 full with clean water. The agitation system must be operating and sufficient to provide uniform spray mixing during application and until the spray tank has been emptied. Complete filling the spray tank to the desired level.
- When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

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**USE DIRECTION:****WATERCRESS:**

Flonicamid may not be applied when watercress is flooded. Water must be turned off 24 hours in advance of an application, and may be turned back on 24 hours after the application.

**ALFALFA:**

Do not allow foraging of fields or harvesting for hay within 14 days of the last application.

**CLOVER:**

Do not allow foraging of fields or harvesting for hay within 60 days of the last application.

**BEAN, LUPIN, FIELD BEAN, KIDNEY BEAN, PEA, COWPEA, BROAD BEAN, CHICKPEA, LENTIL, SOYBEAN, SUNFLOWER, JOJOBA, SAFFLOWER, TEA OIL PLANT, RAPESEED, SESAME, CANOLA, BLUEBERRY, CRANBERRY, STRAWBERRY:**

- FLUANIVAP-50% SG will stop feeding rapidly but it may take several days to see a reduction in insect numbers. Reapply when new insects are detected.
- Two sequential applications result in better control than a single application.

**CANOLA, BLUEBERRY, CRANBERRY, STRAWBERRY, CITRUS:**

Spray adjuvants may improve coverage but do not use binder or sticker- type surfactants. Only use adjuvants known to be safe on for each plant.

**BLUEBERRY, CRANBERRY; STRAWBERRY**

Apply when aphids or lygus first appear in the field and before populations reach high levels.

**COTTON:**

The low rate can be used early season for low pest densities or when tank mixing with other products labeled for target insect control on cotton.

**GARDEN BEET ; CARROT; TURNIP; CHICORY; GINSENG; HORSERADISH; PARSLEY, PARSNIP; RADISH; TURNIP:**

Foliar application should begin when green peach aphid numbers reach 5 per 100 leaves, 1 winged aphid per plant or the observation of wingless aphids.

**ARTICHOKE; CASSAVA; GINGER; POTATO; SWEET POTATO; TURMERIC; YAM**

- Is recommended as a supplemental foliar control of green peach aphid in long season potatoes following an at-plant program using systemic insecticides and for primary foliar control of green peach aphid in short season potatoes.
- Foliar application should begin when green peach aphid numbers reach 5 per 100 leaves, 1 winged aphid per plant or the observation of wingless aphids.

**DRIP IRRIGATION****CUCUMBER, GHERKIN, MUSKMELON, CANTALOUPE, PUMPKIN, SQUASH, WATERMELON, EGGPLANT, TOMATO, PEPPER, OKRA,**

- Most effective application is when it is applied so that the roots are at or near the site of application.
- For transplanted crops, apply FLUANIVAP-50% SG within 21 days of transplanting.
- For direct seeding crops, make applications within 45 days of emergence.
- Any subsequent applications made with products that contain flonicamid must be foliar applications.

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**APPLICATION TO SOIL  
GREENHOUSE CUCUMBERS**

- Apply using a drench by hand, drip irrigation, or with motorized calibrated irrigation equipment to the base of the plants.
- Use a minimum of 95 liters per 1000 plants.
- Treating a few plants before applying to the whole greenhouse is recommended.

**RESTRICTIONS:**

- Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.
- This product is moderately toxic to bees and other pollinating insects exposed to direct treatment, or to residues in/on blooming crops or weeds. Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms

**RE-ENTRY PERIOD:**

12 hours from last application.

**COMPATIBILITY:**

Compatible with other insecticides, fungicides, fertilizers and micronutrient products and compatibility test is recommended before application.

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