

2026-0315
2026-01-30

GROUP	29	INSECTICIDE
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Label

Carbine™ Insecticide

FOR SALE FOR USE IN THE PRAIRIE PROVINCES, PEACE RIVER REGION AND
INTERIOR OF BRITISH COLUMBIA ONLY

COMMERCIAL

WATER DISPERSIBLE GRANULES

READ THE LABEL AND THE PAMPHLET BEFORE USING

ACTIVE INGREDIENT: Flonicamid..... 50.0%

Contains 500 grams of Flonicamid per kilogram of formulated product

WARNING – EYE IRRITANT

REGISTRATION NO: 34659 PEST CONTROL PRODUCTS ACT

Net Contents: 0.5 – 100 kg

ISK Biosciences Corporation
7470 Auburn Road
Suite A
Concord, Ohio 44077 U.S.A.
1-877-706-4640

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

DO NOT take internally. Harmful if swallowed.
Causes eye irritation. **DO NOT** get in eyes.

Avoid prolonged contact with skin. Wash exposed areas of skin thoroughly with soap and warm water after handling or using. Remove contaminated clothing and wash before re-use.

Avoid breathing spray mist.

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 1 day to perform hand set/ hand line irrigation related activities involving foliar contact. For all other postapplication activities, **DO NOT** enter or allow worker entry into treated areas during the REI of 12 hours.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

Follow the personal protective equipment, engineering control and restriction requirements for the appropriate mixer/loader and applicator scenario as described below. These restrictions are required to minimize exposure to the worker. Applications may be required over multiple days or using multiple applicators.

Application Equipment and Engineering Controls	Personal Protective Equipment	
	Mixer/Loader/Clean-up and Repair	Applicator
Aerial	Coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and protective eyewear (goggles or face shield)	Long-sleeved shirt, long pants, chemical-resistant gloves ¹ , socks and shoes.
Groundboom	Coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and protective eyewear (goggles or face-shield)	Coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves ¹ , socks and shoes.

¹Gloves are not required during application within a closed cab and/or cockpit.

ENVIRONMENTAL PRECAUTIONS

Toxic to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying - Best Management Practices” on the Health Canada website (www.canada.ca/pollinators).

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Care should be taken when using this product in an integrated pest management program where users are relying on the presence of beneficial arthropods.

Toxic to non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website

FIRST AID

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 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 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.

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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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In Case of Emergency: Call 1-888-484-7546.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

STORAGE

Store product in original container, in a secured, dry place separate from other pesticides, fertilizer, food, and feed.

DISPOSAL

Disposal of container: 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 container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

Disposal of unused, unwanted product: For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial 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 a way that is inconsistent with the directions on the label.

Carbine™ is a trademark of Ishihara Sangyo Kaisha, Ltd.

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If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

Disposal of unused, unwanted product: For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for clean up of spills.

DIRECTIONS FOR USE

Carbine™ Insecticide can be used against the listed pests on Crop Subgroup 20A, Crop Subgroup 20B, alfalfa grown for seed, legume vegetables – succulent or dried (except soybean) (Crop Group 6), and non-grass Animal Feeds.

The rate of application is dependent upon the insect species present, the level of insect pressure, and the amount of foliage present. Begin applications before populations begin to build or at economic thresholds according to local economic guidelines. Refer to local Cooperative Extension Guideline and/or time applications for scouting results. Thorough plant coverage is essential for good performance.

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As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Mode of Action

Carbine™ Insecticide is a member of the pyridinecarboxamide class of chemistry. Carbine™ Insecticide controls target pests by contact and ingestion provoking rapid and irreversible feeding cessation. Aphids could remain on the plant until they desiccate.

Ground Application

Field sprayer application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Boom height must be 60 cm or less above the crop or ground.

Utilize a boom and nozzle sprayer equipped with the appropriate nozzles, spray tips and screens and adjusted to provide optimum spray distribution and coverage at the appropriate operating pressures. Utilize nozzles that produce minimal amounts of fine spray droplets. Do not exceed 205 kPa (30 psi) spray pressure unless otherwise required by the manufacturer of drift reducing nozzles. Sprayers should be adjusted to position spray tips a minimum of 46 cm (18 inches) above the crop. Be aware that overlaps and slower ground speeds while starting, stopping or turning while spraying may result in higher application rates.

Aerial Application

Conventionally piloted aircraft application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium-Coarse classification. DO NOT apply under weather conditions of less than 50% relative humidity and temperatures greater than 20°C. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of wing- or rotorspan.

Carbine™ Insecticide may be applied by aircraft to Crop Subgroup 20A, Crop Subgroup 20B, Alfalfa grown for seed, Legume vegetables – Succulent or Dried (except soybean) (Crop Group 6), Non-grass animal feeds.

Apply only by aircraft equipment, which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate specified for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be

applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices or a Global Positioning System (GPS).

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

PRODUCT SPECIFIC PRECAUTIONS:

Read and understand the entire label before opening this product. If you have questions, call the registrant at 877-706-4640 or obtain technical advice from the distributor or your provincial or territorial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum of 45 litres of water per hectare.

Spray buffer zones:

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:					
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial habitat	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m		
Field sprayer	Crop Subgroup 20A, Crop Subgroup 20B, Alfalfa grown for seed, Legume vegetables – Succulent or Dried (except soybean) (Crop Group 6), Non-grass animal feeds.	0	0	N/A	N/A	1	
Aerial	Crop Subgroup 20A, Crop Subgroup 20B,	Fixed wing	0	0	N/A	N/A	1

	Alfalfa grown for seed, Legume vegetables – Succulent or Dried (except soybean) (Crop Group 6), Non-grass animal feeds.	Rotary wing	0	0	N/A	N/A	1
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N/A = Not applicable (Spray buffer zones for the protection of estuarine/marine habitats are not applicable for uses registered only in the Prairie provinces (Manitoba, Saskatchewan, Alberta) and the interior of British Columbia, including the Peace River Region)

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASABE) category indicated on the labels for those tank mix partners.

Resistance Management Recommendations

For resistance management, please note that Carbine™ Insecticide contains a Group 29 insecticide. Any insect population may contain individuals naturally resistant to Carbine™ Insecticide and other Group 29 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is 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 insecticide resistance:

- Where possible, rotate the use of Carbine™ Insecticide or other Group 29 insecticides with different groups that control the same pests. Avoid application of more than 3 consecutive sprays of Carbine™ Insecticide or other insecticides in the same group in a season.
- 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 and 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 ISK Biosciences Corporation at 1-877-706-4640.

Use Restrictions

Do not use this product in home gardens.

Crop Rotation Restrictions

Following application of Carbine™ Insecticide, any crop listed on this label may be planted at any time.

All other crops may be planted 30 days after the last application of Carbine™ Insecticide.

Pre-Harvest Intervals

Crop	PHI Days
Crop Subgroup 20A	7
Crop Subgroup 20B	0
Non-grass Animal Feeds	7
Legume Vegetables -- Succulent or Dried (except soybean) (Crop Group 6)	7

Mixing and Loading Instructions

Ensure the spray system is clean and free of residues from previous applications. Fill the spray tank 1/2 full with clean water. Ensure the agitation system is 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.

Avoid the overnight storage of Carbine™ Insecticide spray mixtures.

Premixing Carbine™ Insecticide solutions in nurse tanks is not recommended. Prepare no more spray mixture than is needed for the immediate application.

Do not use liquid fertilizer as a carrier for Carbine™ Insecticide.

Tank Mixing and Compatibility

This product may be tank mixed with a supplement or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact ISK Biosciences Corporation at 1-877-706-4640 for information before applying any tank mix that is not specifically recommended on this label.

Conduct a jar test with intended tank-mix product(s) prior to preparation of large volumes to ensure compatibility. Use the following procedure: 1) Pour the recommended proportions of the products into a suitable container of water, 2) Mix thoroughly and 3) Allow to stand 5 minutes. If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. Any physical incompatibility in the jar test indicates that Carbine™ Insecticide must not be used in the tank-mix. Since not all crop varieties have been tested with all possible tank mix combinations, the combination should also be tested for crop safety on a small portion of the crop to ensure that phytotoxicity will not occur.

Spray Equipment Clean Out

After spraying Carbine™ Insecticide and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned.

Application Information

All ground and aerial application equipment must be properly maintained and calibrated using appropriate carriers. Use the largest droplet size consistent with good pest control.

Thorough spray coverage of plant foliage is essential for optimum control. Apply in sufficient water to ensure good coverage. Finished spray volumes should be increased under extreme pest populations or dense plant foliage.

Crop Subgroup 20A - Borage, Crambe, Cuphea, Echium, Flax seed, Gold of Pleasure, Hare’s ear mustard, Lesquerella, Lunaria, Meadowfoam, Milkweed, Mustard seed, Oil radish, Poppy seed, Rapeseed, Sesame, Sweet rocket and cultivars and/or hybrids of these (7 day PHI)

PESTS	RATE OF APPLICATION		COMMENTS
	Kilograms Carbine™ Insecticide per Hectare	Kilograms Active Ingredient per Hectare	
Aphids	0.12 to 0.16	0.06 to 0.08	Within the range, use higher rates for greater pest populations and/or dense foliage.
Reduces damage from Tarnished Plant Bug	0.20 (3 applications) or 0.30 (2 applications)	0.10 (3 applications) or 0.15 (2 applications)	

Thorough spray coverage of plant foliage is essential for optimum control. Apply in sufficient water to ensure good coverage; use a minimum of 94 litres per hectare when applied by ground or a minimum of 45 litres per hectare when applied by air. Finished spray volumes should be increased when plant foliage is dense.

Apply before populations reach economic thresholds or as populations begin to increase but before damaging populations become established. Scout fields and reapply if necessary.

Allow a minimum of 7 days between applications.

Do not apply more than 3 applications per year.

Do not apply more than 0.30 kilograms per hectare Carbine™ Insecticide (0.15 kilograms a.i. per hectare) per application. Do not apply more than 0.60 kilograms per hectare Carbine™ Insecticide (0.30 kilograms a.i. per hectare) per year.

Crop Subgroup 20B - Calendula, Castor oil plant, Chinese tallowtree, Euphorbia, Evening Primrose, Jojoba, Niger seed, Rose hip, Safflower, Stokes aster, Sunflower, Tallowwood, Tea oil plant, Vernonia, and cultivars and/or hybrids of these (0 day PHI)

PESTS	RATE OF APPLICATION		COMMENTS
	Kilograms Carbine™ Insecticide per Hectare	Kilograms Active Ingredient per Hectare	
Aphids	0.12 to 0.16	0.06 to 0.08	Within the range, use higher rates for greater pest populations and/or dense foliage.
Reduces damage from Tarnished Plant Bug	0.20 (3 applications) or 0.30 (2 applications)	0.10 (3 applications) or 0.15 (2 applications)	

Thorough spray coverage of plant foliage is essential for optimum control. Apply in sufficient water to ensure good coverage; use a minimum of 94 litres per hectare when applied by ground or a minimum of 45 litres per hectare when applied by air. Finished spray volumes should be increased when plant foliage is dense.

Apply before populations reach economic thresholds or as populations begin to increase but before damaging populations become established. Scout fields and reapply if necessary.

Allow a minimum of 7 days between applications.

Do not apply more than 3 applications per year.

Do not apply more than 0.30 kilograms per hectare Carbine™ Insecticide (0.15 kilograms a.i. per hectare) per application. Do not apply more than 0.60 kilograms per hectare Carbine™ Insecticide (0.30 kilograms a.i. per hectare) per year.

Non-grass Animal Feeds (Forage, Fodder, Straw and Hay) (7 day PHI)

Alfalfa; clover (*Trifolium* spp., *Melilotus* spp.); lespedeza; lupin; sainfoin; trefoil; vetch; vetch, crown; vetch, milk.

PESTS	RATE OF APPLICATION		COMMENTS
	Kilograms Carbine™ Insecticide per Hectare	Kilograms Active Ingredient per Hectare	
Aphids	0.12 to 0.16	0.06 to 0.08	Within the range, use higher rates for greater pest populations and/or dense foliage.
Tarnished Plant Bug	0.20 (3 applications) or 0.30 (2 applications)	0.10 (3 applications) or 0.15 (2 applications)	

Thorough spray coverage of plant foliage is essential for optimum control. Apply in sufficient water to ensure good coverage; use a minimum of 94 litres per hectare when applied by ground or a minimum of 45 litres per hectare when applied by air. Finished spray volumes should be increased when plant foliage is dense.

Apply before populations reach economic thresholds or as populations begin to increase but before damaging populations become established. Scout fields and reapply if necessary.

Allow a minimum of 7 days between applications.

Do not apply more than 3 applications per year.

Do not apply more than 0.30 kilograms per hectare Carbine™ Insecticide (0.15 kilograms a.i. per hectare) per application. Do not apply more than 0.60 kilograms per hectare Carbine™ Insecticide (0.30 kilograms a.i. per hectare) per year.

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than ISK Biosciences Corporation under the User Requested Minor Use Label Expansion program. For these uses, ISK Biosciences Corporation has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

Alfalfa grown for seed (7 day PHI)

PESTS	RATE OF APPLICATION		COMMENTS
	Kilograms Carbine™ Insecticide per Hectare	Kilograms Active Ingredient per Hectare	
Aphids	0.12 to 0.16 Maximum	0.06 to 0.08 Maximum	Within the range, use higher rate for greater pest populations and/or dense foliage.
Tarnished Plant Bug	0.20 (3 applications) or Maximum 0.30 (2 applications)	0.10 (3 applications) Or Maximum 0.15 (2 applications)	

Thorough spray coverage of plant foliage is essential for optimum control. Apply in sufficient water to ensure good coverage; use a minimum of 100 litres per hectare when applied by ground or a minimum 45 litres per hectare when applied by air. Finished spray volumes should be increased when plant foliage is dense.

Apply before populations reach economic thresholds or as populations begin to increase but before damaging populations become established. Scout fields and reapply if necessary.

Allow a minimum of 7 days between applications.

Do not apply more than 3 applications per year.

Do not apply more than 0.30 kilograms per hectare Carbine™ Insecticide (0.15 kilograms a.i. per hectare) per application. Do not apply more than 0.60 kilograms per hectare Carbine™ Insecticide (0.30 kilograms a.i. per hectare) per year.

Do not use seed or treated forage for human or animal consumption.

Legume Vegetables – Succulent or Dried, except soybeans (7 day PHI)

Bean (*Lupinus* spp.) (includes grain lupin, sweet lupin, white lupin and white sweet lupin),
Bean (*Phaseolus* spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean,

runner bean, snap bean, tepary bean and wax bean); bean (*Vigna* spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean and yardlong bean), Broadbean, (fava bean) (*Vicia faba*), Chickpea (garbanzo bean) (*Cicer arietinum*), Guar (*Cyamopsis tetragonoloba*), Jackbean (*Canavalia ensiformis*), Lablab bean (hyacinth bean) (*Lablab purpureus*), Lentil (*Lens esculenta*), Pea (*Pisum* spp.) (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea), Pigeon pea (*Cajanus cajan*), Sword bean (*Canavalia gladiata*)

PESTS	RATE OF APPLICATION		COMMENTS
	Kilograms Carbine™ Insecticide per Hectare	Kilograms Active Ingredient per Hectare	
Aphids	0.12 to 0.16	0.06 to 0.08	Apply before aphid populations reach economic thresholds or as populations begin to increase but before damaging populations become established. Scout fields and reapply if necessary. Within the range use, higher rates for greater pest populations and/or dense foliage.
Reduces the numbers of lygus bugs including tarnished plant bug	0.20	0.10	Apply when lygus bugs first appear in the field and before populations reach high levels. Carbine™ Insecticide will stop lygus bug feeding rapidly but it may take several days to see a reduction in lygus bug numbers. Reapply when new insects are detected.
<p>Thorough spray coverage of plant foliage is essential for optimum performance. Apply in sufficient water to ensure good coverage; use a minimum of 94 litres per hectare when applied by ground or a minimum of 45 litres per hectare when applied by air. Finished spray volumes should be increased when plant foliage is dense.</p> <p>Allow a minimum of 7 days between applications.</p> <p>Do not apply more than 3 applications per year.</p> <p>For applications to control aphids: Do not apply more than 0.16 kilograms per hectare Carbine™ Insecticide (0.08 kilograms a.i. per hectare) per application (up to 3 applications per year).</p>			

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For applications to reduce the numbers of lygus bugs: Do not apply more than 0.20 kilograms per hectare Carbine™ Insecticide (0.10 kilograms a.i. per hectare) per application (up to 3 applications per year).

NOTICE TO USER

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