

Container Label

GROUP

9D

INSECTICIDE

**SEFINA™ INSECTICIDE**

**For use in the control of aphids in soybean and potato and whiteflies in potato**

Emulsifiable Concentrate

AGRICULTURAL

ACTIVE INGREDIENT: Afidopyropen.....50 g/L

REGISTRATION NO. 33265

PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT, 1-800-454-2673**



CAUTION

POISON

SKIN IRRITANT

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

NET CONTENTS: 0.1 L to 1000 L

BASF Canada Inc.  
100 Milverton Drive, 5th Floor  
Mississauga, Ontario  
L5R 4H1  
1-877-371-2273

SEFINA is a trademark of BASF Agrochemical Products B.V., used with permission by BASF Canada Inc.

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Harmful if swallowed or absorbed through skin.
3. Harmful if inhaled. Avoid breathing sprays. May irritate the skin. Avoid contact with skin.
4. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab. Wash hands before eating, drinking, smoking or using the toilet. Change out of work clothes and take a bath or shower after handling or spraying the product. Launder protective clothing before re-use.
5. **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
6. Clean spray equipment thoroughly after use.
7. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

## 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.

## TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms. Observe buffer zones and vegetative filter strips specified under DIRECTIONS FOR USE.

Bee Warning. Laboratory studies have shown sublethal effects (such as co-ordination and locomotion problems) to bees. Semi-field and field studies conducted with this product have shown no effects on honeybee colony development. However, short term effects may occur. Minimize spray drift to reduce exposure to bees in habitats close to the application site. Application during the crop blooming period, and when flowering weeds are present may be made in the evening when most bees are not foraging. 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.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators)). Follow crop specific directions for application timing.

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.

To reduce risk to aquatic organisms from run-off, a vegetative filter strip of at least 10 metres wide between the field edge and adjacent, downhill aquatic habitats must be observed, as specified under DIRECTIONS FOR USE.

## **STORAGE**

1. Store the leftover product in original tightly closed container.
2. Do not ship or store the product near food, feed, seed and fertilizers.
3. Store the product in cool, dry, locked, well-ventilated area without floor drain.
4. To prevent contamination store this product away from food or feed.

## **DISPOSAL**

**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, rinsed container unsuitable for further use.

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

**For Returnable Containers**

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**For Refillable Containers**

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**For Non-Returnable containers**

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

**NOTICE TO USER**

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Smaller Container Label

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## **TOXICOLOGICAL INFORMATION**

There is no specific antidote. Treat symptomatically.

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms. Observe buffer zones and vegetative filter strips specified under DIRECTIONS FOR USE. Please refer to the booklet for the complete list of Environmental Precautions.

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Booklet

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## GENERAL INFORMATION

**SEFINA™ INSECTICIDE**, a dispersible concentrate (DC), is a selective contact insecticide for control of a variety of aphid and whitefly pests. The active ingredient in **SEFINA INSECTICIDE** is afidopyropen, a member of the pyropene class of chemistry. **SEFINA INSECTICIDE** causes immediate cessation of feeding.

When used as directed, **SEFINA INSECTICIDE** provides control of aphid and whitefly pests on soybean and potato listed on this label.

## DIRECTIONS FOR USE (See specific sections for each crop group)

Shake container well before use.

Apply recommended rates of **SEFINA INSECTICIDE** as instructed in the following series of crop application rate tables. For **SEFINA INSECTICIDE** to be most effective, apply at the first sign of insects and before the build-up of heavy pressure. Application must be timed to coincide with locally recommended treatment threshold levels.

**SEFINA INSECTICIDE** is not systemic. Thorough and uniform coverage of all plant parts is required for effective control. Foliar applications may be made using properly calibrated ground or aerial application equipment. Use of higher water volumes is recommended for thorough and uniform coverage. Applying **SEFINA INSECTICIDE** at spray volumes lower than directed can make it harder to obtain thorough coverage and may result in slower activity and/or inadequate control.

**DO NOT** use in the greenhouse.

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.

### Plant Tolerance

This product has been tested on a number of crop varieties with no phytotoxicity observed at labeled rates; however, **SEFINA INSECTICIDE** has not been tested on all varieties and cultivars. It is recommended to test a small group of representative plants for tolerance to **SEFINA INSECTICIDE** under local growing conditions and prior to large-scale use.

## SEFINA INSECTICIDE Application Instructions

<b>Soybean Application Rate Table (Ground and Aerial Application)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>Soybean</b>	soybean aphid ( <i>Aphis glycines</i> )	0.2	7
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• For ground application, apply in a minimum spray volume of 100-200 L/ha.</li> <li>• For aerial application apply in a minimum spray volume of 50 L/ha.</li> <li>• Always use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• <b>DO NOT</b> apply more than 2 applications per year.</li> <li>• <b>DO NOT</b> apply more than 0.4 L/ha per year.</li> <li>• Application during the crop blooming period may be made only in the evening when most bees are not foraging.</li> </ul>			

<b>Potato Application Rate Table (Ground and Aerial Application)</b>			
<b>Crop(s)</b>	<b>Pest(s) Controlled</b>	<b>Amount of Product per Application (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>
<b>Potato</b>	green peach aphid ( <i>Myzus persicae</i> )	0.2	7
	potato aphid ( <i>Macrosiphum euphoribae</i> )		
	sweet potato whitefly ( <i>Bemisia tabaci</i> )	0.7-1.0	
	silverleaf whitefly ( <i>Bemisia argentifolii</i> )		
<ul style="list-style-type: none"> <li>• Allow a minimum of 7 days between applications. Monitor pest population and reapply if necessary once thresholds are reached.</li> <li>• If whitefly pressure is high, use the highest label rate for optimum control.</li> <li>• For ground application, apply in a minimum spray volume of 100-200 L/ha.</li> <li>• For aerial application, apply in a minimum spray volume of 50 L/ha.</li> <li>• Always use adequate water volume to ensure thorough coverage.</li> <li>• Please see plant tolerance for more specific variety information.</li> <li>• <u>Resistance management</u>: <b>DO NOT</b> make more than 2 sequential applications of Sefina before using an insecticide with a different mode of action.</li> <li>• <b>DO NOT</b> apply more than 4 applications per year.</li> <li>• <b>DO NOT</b> apply more than 2.5 L/ha per year.</li> <li>• Application during the crop blooming period may be made only in the evening when most bees are not foraging.</li> </ul>			

## Crop-Specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI) (days)	Maximum Product Rate/ha per Application (Litres)	Maximum Product Rate/ha per Year (Litres)
Potato	7	1.0	2.5
Soybean	7	0.2	0.4

### Ground application

Apply **SEFINA INSECTICIDE** at rates listed in the crop specific application rate tables when insect thresholds are reached. Use a minimum water volume of 100-200 L/ha depending on the application method (see crop specific application tables). Ensure thorough coverage of foliage. Consult nozzle manufacturers' recommendation for spray pressures for specific nozzles.

### Aerial application

Apply **SEFINA INSECTICIDE** at rates listed in the crop specific application rate tables when insect thresholds are reached. Use a minimum water volume of 50 L/ha. Ensure thorough coverage of foliage. Consult nozzle manufacturers' recommendation for spray pressures for specific nozzles.

### Instructions for Aerial Applications

Apply only by fixed-wing or rotary 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 recommended 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.

### 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 Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

### Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. 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.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-877-371-BASF (2273) or obtain technical advice from the distributor or your provincial agricultural representative.

### **Tank Mixing**

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact BASF Canada Inc. at 1-877-371-2273 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by BASF Canada Inc.

Before using any tank mix, test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application. Treat a small group of target crop including plant cultivars and evaluate for 3-7 days prior to making an application to your entire crop.

### **Vegetative Filter Strips**

A Vegetative Filter Strip (VFS) of at least 10 metres wide must be observed. The VFS is required between the field edge and adjacent, downhill aquatic habitats to reduce risk to aquatic organisms from run-off. Aquatic habitats include, but are not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

The VFS is to be composed of grasses and may also include shrubs, trees, or other vegetation. The VFS must be maintained. Additional guidance can be found on the PMRA Environmental Risk Mitigation webpages.

Both VFS and spray drift buffer zones must be observed.

### **Spray Drift Buffer Zones**

Spray drift buffer zones are to protect terrestrial and aquatic habitats from spray drift. Spray drift buffer zones are a separate requirement from VFS which are required to mitigate risks from run-off.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Aerial application: DO NOT apply during periods of dead calm. 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 spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

## Spray Drift Buffer Zones

Spot treatments using hand-held equipment DO NOT require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of 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		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Soybean		1	1	10	5
	Potato		3	2	40	20
Aerial	Soybean	Fixed wing	10	1	275	90
		Rotary wing	10	1	250	70
	Potato	Fixed wing	75	25	800	800
		Rotary wing	65	20	800	475

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

The spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site. This tool cannot be used to reduce the vegetative filter strips.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **SEFINA INSECTICIDE** contains a Group 9D insecticide. Any insect population may contain individuals naturally resistant to **SEFINA INSECTICIDE** and other Group 9 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 **SEFINA INSECTICIDE** or other Group 9 insecticides with different groups that control the same pests.
- **DO NOT** exceed the total number of applications of **SEFINA INSECTICIDE** per year as stated in the crop specific restrictions and limitations.
- Use tank mixtures with insecticides from a different group that is effective on the target pest when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting and record keeping, and considers pest thresholds, as well as 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 BASF at 1-877-371-2273 or at [www.agsolutions.ca](http://www.agsolutions.ca).

## MIXING

1. Ensure the spray tank is clean before use. Follow the clean-out recommendations stated on the label of the product that was previously used.
2. Fill the tank one-half full of water and start agitation.
3. Add the required amount of **SEFINA INSECTICIDE** to the tank.
4. Add the required amount of tank mix partner to the tank if required.
5. Continue agitation while filling the remainder of the spray tank.
6. Clean the spray tank after use.

## RESTRICTIONS AND LIMITATIONS

1. A 30-day plant back interval is required for crops not listed on the label.
2. **DO NOT** feed or graze soybean hay or forage.
3. **DO NOT** use in greenhouses.

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Avoid application when heavy rain is forecast.

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## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Harmful if swallowed or absorbed through skin.
3. Harmful if inhaled. Avoid breathing sprays. May irritate the skin. Avoid contact with skin.
4. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab. Wash hands before eating, drinking, smoking or using the toilet. Change out of work clothes and take a bath or shower after handling or spraying the product. Launder protective clothing before re-use.
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