

GROUP	<b>1B</b>	INSECTICIDE
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Base

**DIBROM®**

INSECTICIDE

EMULSIFIABLE CONCENTRATE  
COMMERCIAL

This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.



DANGER

POISON

READ THE LABEL BEFORE USING

REGISTRATION No. 7442 PEST CONTROL PRODUCTS ACT

GUARANTEE: Naled 900 g/L

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR  
POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT,  
1-800-561-8273

LOVELAND PRODUCTS CANADA INC.  
789 DONNYBROOK DRIVE  
Dorchester, Ontario  
N0L 1G5  
1-800-328-4678

NET CONTENTS: 1L-10 L

11/12

**GROUP**

**1B**

**INSECTICIDE**

FRONT

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## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

Concentrate may cause skin damage.

Do not get on skin, eyes or clothing.

Use waterproof gloves and face shield or goggles when handling concentrate.

Harmful if swallowed.

Avoid breathing spray mist.

Avoid contamination of feed, foodstuffs and drinking water.

Do not use or store near heat or open flame.

May corrode metal spray equipment.

Wash equipment thoroughly after use.

May be toxic to bees; avoid application during periods of bee activity.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca).

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

### **Product Specific Precautions**

Read and understand the entire label before opening this product.

If you have questions, call the manufacturer at 1-800-561-8273 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

### **PROTECTIVE CLOTHING AND EQUIPMENT:**

#### **Groundboom:**

- Mixers, loaders and applicators must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, a respirator, chemical-resistant gloves and eye protection when applying to areas larger than 30 ha in one day.
- Mixers, loaders and applicators must wear cotton coveralls over a long-sleeved shirt and long pants, a respirator, chemical-resistant gloves and eye protection when applying to areas smaller than 30 ha in one day.

#### **Airblast:**

- Mixers, loaders and applicators must wear cotton coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves and eye protection.

#### **Aerial application:**

- All applications must use closed mixing/loading systems.

**Low-pressure handwand:**

- Mixers, loaders and applicators must wear cotton coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves and eye protection.

**Backpack:**

- Mixers, loaders and applicators must wear cotton coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves and eye protection.

**High-pressure handwand:**

- Mixers, loaders and applicators must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, respirator, chemical-resistant gloves and eye protection.
- Workers must not handle more than 1000 L of diluted product per day.

**Greenhouse Vapour Treatment:**

- Mixers, loaders and applicators must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, respirator, chemical-resistant gloves and eye protection.

**FIRST AID**

**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 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.

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible.

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**

Naled is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes.

This may progress to muscle twitching, weakness, tremor, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful).

Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician. NOTE: Product contains a petroleum distillate solvent. Vomiting may cause aspiration pneumonia.

## **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 information on 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:** 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. The user assumes the risk to persons or property that arises from any such use of this product.

®DIBROM Insecticide is a registered trademark of AMVAC CHEMICAL CORPORATION.

GROUP	<b>1B</b>	INSECTICIDE
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DATAPAK

**DIBROM®**

INSECTICIDE

EMULSIFIABLE CONCENTRATE  
COMMERCIAL

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REGISTRATION No. 7442 PEST CONTROL PRODUCTS ACT

GUARANTEE: Naled 900 g/L

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING  
INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273

LOVELAND PRODUCTS CANADA INC.  
789 DONNYBROOK DRIVE  
Dorchester, Ontario  
N0L 1G5  
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NET CONTENTS: 1 L - 10 L

11/12

This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.

### **GENERAL LIMITATIONS:**

Do not use in conjunction with products containing trichlorfon or dichlorvos.

**COMPATIBILITY:** This product is compatible with most insecticide and fungicide formulations. Do not use with alkaline materials such as lime or bordeaux.

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that DIBROM Insecticide contains a Group 1B insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to DIBROM Insecticide and other Group 1B insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are 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/acaricide resistance:

- Where possible, rotate the use of DIBROM Insecticide or other Group 1B insecticides/acaricides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides/acaricides from a different group when such use is permitted.
- Insecticide/acaricide use should be based on an IPM program that includes scouting, 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 and to report suspected resistance, contact Technical Service, Loveland Products Canada Inc., 1-800-328-4678 or at [www.uap.ca](http://www.uap.ca).

### **AERIAL APPLICATION INSTRUCTIONS**

Use only where aerial application is indicated on this label.

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.

Do not apply to any body of water. 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. Avoid drifting of spray onto any body of water or other non-target areas.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Use low nozzle pressure (Below 300 kPa). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray in winds exceeding 10 - 15 km per hour. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat. Do not allow spray drift onto sensitive areas such as water, urban and residential areas.

## **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 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 1-800-561-8273 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

**Volume:** Apply the recommended rate in a minimum spray volume of 10 litres per hectare unless otherwise stated.



## **PROTECTIVE CLOTHING AND EQUIPMENT:**

### **Groundboom:**

- Mixers, loaders and applicators must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, a respirator, chemical-resistant gloves and eye protection when applying to areas larger than 30 ha in one day.
- Mixers, loaders and applicators must wear cotton coveralls over a long-sleeved shirt and long pants, a respirator, chemical-resistant gloves and eye protection when applying to areas smaller than 30 ha in one day.

### **Airblast:**

- Mixers, loaders and applicators must wear cotton coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves and eye protection.

### **Aerial application:**

- All applications must use closed mixing/loading systems.

### **Low-pressure handwand:**

- Mixers, loaders and applicators must wear cotton coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves and eye protection.

### **Backpack:**

- Mixers, loaders and applicators must wear cotton coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves and eye protection.

### **High-pressure handwand:**

- Mixers, loaders and applicators must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, respirator, chemical-resistant gloves and eye protection.
- Workers must not handle more than 1000 L of diluted product per day.

### **Greenhouse Vapour Treatment:**

- Mixers, loaders and applicators must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, respirator, chemical-resistant gloves and eye protection.

## **RESTRICTED ENTRY INTERVAL (REI):**

- Do not allow worker entry into treated areas (outdoor or indoor) for 48 hours following application.
- If animals must be handled within 48 hours of application, wear chemical-resistant gloves.
- Greenhouses must be fully ventilated before re-entry. If the greenhouse cannot be ventilated after vapour treatment or fogging, the application should not be made.

**ENVIRONMENTAL HAZARDS:**

- TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

**DIRECTIONS FOR USE****Greenhouse Vapour Treatment:**

- Apply using a squeeze bottle only. Do not apply using a paintbrush or any other method.
- Apply to cold pipes only. Do not apply to hot pipes
- Maximum of 3 applications (including one postharvest) per crop per cycle.
- Minimum 7-day spray interval.

**Greenhouse Fogging Treatment:**

- Apply with automated fogging equipment only. All workers must vacate the premises during the fogging operation.
- Maximum of 3 applications (including one postharvest) per crop per cycle.
- Minimum 7-day spray interval.

**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) medium classification.

**Airblast application:**

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

**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. For application to field crops including pastures, DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. For application to corrals, feedlots and holding pens, DO NOT apply with spray droplets smaller than the ASAE very fine classification.

DO NOT allow nozzle spacing to exceed 65% of boom length. DO NOT apply by air in woodlots. Workers using the maximum rate of 1.9 kg ai/ha must limit area treated to 200 ha per day.

**Buffer zones:**

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats).

Crop	Method of Application		Buffer Zones (meters) Required for the Protection of:		
			Aquatic Habitat of Depths:		
			<1 m	1-3 m	>3 m
Sugarbeet, beans, peas, cole crops, alfalfa,	Field sprayer*		65	25	10
clover, vetch					
lettuce			50	20	10
Potato, tomato, strawberry			35	15	5
Ornamentals			40	15	5
Rangeland, field areas, pastures			30	10	4
Woodlands	Ground application (early growth stage)		55	35	25
Woodlands	Ground application (late growth stage)		45	25	15
Feed lots, pastures	Ground application		50	35	25
Beans, peas	Aerial	Fixed-wing	800	550	350
		Rotary-wing	650	375	200
Clover, vetch, alfalfa	Aerial	Fixed-wing	725	475	300
		Rotary-wing	525	300	175
Potatoes, tomatoes (field)	Aerial	Fixed-wing	800	550	300
		Rotary-wing	675	325	150
Pastures	Aerial	Fixed-wing	800	125	30
		Rotary-wing	425	95	25
Corrals, feedlots, holding pens	Aerial	Fixed-wing	800	400	150
		Rotary-wing	800	275	95

\* For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy or ground, the labeled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy or ground, the labeled buffer zone can be reduced by 30%.

**ACCEPTABLE COMMERCIAL USES FOR NALED**

<b>General</b>			<p><b>EMULSIFIABLE CONCENTRATE</b></p> <p><b>UNLESS OTHERWISE STATED USE THE FOLLOWING INSTRUCTIONS AND LIMITATIONS</b></p> <p><b>Use Directions:</b> Begin application at first sign of insects. On all sites apply as a contact spray or thorough cover spray.</p> <p><b>Ground application:</b> Dilute with water to 100–300 L/ha unless otherwise stated.</p> <p><b>Aerial application:</b> Use only where aerial application is indicated. Unless otherwise stated, dilute with water to 10–30 L/ha when aerial application is specified.</p> <p><b>Limitations:</b> Maximum 2 applications per season, unless otherwise specified. Do not apply to food or forage crops within 4 days of harvest or grazing, unless otherwise specified. Do not apply when temperature is over 32°C. Do not re-enter treated sites for 48 hours. High-pressure handwand application: Workers must not handle more than 1000 L of diluted product per day.</p>
<b>Site</b>	<b>Pest</b>	<b>Rate</b>	<b>Application Instructions and Limitations</b>
Broccoli, Brussels sprouts, cabbage, cauliflower	Imported cabbageworm, diamondback moth caterpillars, aphids	1.05 L/ha	Ground spray application only.
	Cabbage looper	1.05-2.1L/ha	
Beans (dry or field), lima beans, peas (processing)	Alfalfa looper, aphids, red spider mites	1.05-2.1L/ha	Ground and aerial application. Workers using the maximum rate of 2.1 L/ha must limit the area treated to 200 ha per day.
Alfalfa, clover, vetch	Aphids, leafhoppers, loopers, lygus bugs	1.05-2.1L/ha	
lettuce	Looper caterpillars, aphids	1.05-1.60L/ha	Ground spray application only.
Onion (bulb or seed only)	Thrip, onion maggot	0.53L/ha	
Potato	Colorado potato beetle, leafhoppers, flea beetles	1.05L/ha	Ground and aerial application.

Strawberries	Red spider mites, aphids, spittlebugs	1.05 L/ha	Ground spray application only.
Sugarbeets	Red spider mites, leafhoppers	2.1 L/ha	Ground spray application only. Do not apply to food or forage crops within 5 days of harvest or grazing.
Tomato (field)	Fruit flies ( <i>Drosophila</i> spp.)	1.05 L/ha	Ground and aerial application. Ground: Use 400 L of water/ha minimum. Make first application at 5-7days before first picking and if necessary, reapply once 5-7days later. Aerial: Use 70-100 L water/ha.
	Tomato fruit worm, hornworms, leafminers	0.96L/1000 L of water	Ground application. Spray plants thoroughly. Use up to 2000 L diluted spray/ha.
Rangeland, field areas and pastures	Young grasshoppers	0.53-0.82 L/ha	Ground and aerial application. Animals may be present during treatment. If animals must be handled within 48hours of application, wear chemical resistant gloves.
	Adult grasshoppers	0.67-0.96L/ha	
Livestock pastures, feedlots, pastures (dairy cattle present)	Adult mosquitoes, gnats, house fly	122- 305.3 mL/ha	<b>Mist blower application:</b> 6.7–11.5 L/1000 L of water. Calibrate equipment (rate of travel and output) to apply 122-305.3 mL/ha. Make applications during peak of infestation. <b>Aerial application:</b> Apply diluted with water or No. 2 fuel oil. Apply 6–22 L of diluted spray/ha. Time application for peak infestation. It is not necessary to avoid farm buildings or dairy barns. If animals must be handled within 48 hours of application wear chemical-resistant gloves.
Corrals, adjacent pastures, holding pens (dairy or beef cattle, sheep, horses, hogs present)	Mosquitoes, adult house fly	122- 305.3 mL/ha	<b>Aerial application:</b> Use 122 to 305.3 mL of Dibrom Insecticide per hectare (110–275 g a.i./ha). Dilute 1.38 L to 3.5 L of product in 100 L of water, then apply 9 L of this diluted solution/hectare. Apply over areas with animals present. To supplement control, treat buildings and protected areas with a space spray. If animals must be handled within 48 hours of application wear chemical-resistant gloves.
Roses and cut flower crops (greenhouse)	Whiteflies, spider mites, aphids, leafrollers, mealybugs	Fog: 6.7- 13.4 mL/100 m <sup>2</sup>	<b>Fog:</b> Maximum of 3 applications per crop, per cycle. Minimum 7-day spray interval. Make no application closer than 2 days to harvest. Apply with automated fogging equipment ONLY. All workers must vacate the

			<p>premises during fogging operation and must not re-enter until the greenhouse has been ventilated. Do not re-enter treated areas for 48 hours after application.</p> <p>Thoroughly ventilate premises before re-entering. If the greenhouse cannot be ventilated after vapour treatment or fogging, the application should not be made.</p> <p>NOTE: Dibrom Insecticide has not been assessed for phytotoxicity to all varieties of roses and cut flowers. If in doubt about crop safety, treat a small area of the crop to assess phytotoxicity before treating the entire greenhouse.</p> <p>WARNING: Avoid over treatment and direct application to plants as injury may result. White butterfly roses, Golden rapture, Green wandering Jew and Dutchman's pipe may be injured by Dibrom Insecticide.</p>
<p>Tomato, cucumber, roses and cut flower crops (greenhouse)</p>	<p>Whiteflies, spider mites, aphids, leafrollers, mealybugs</p>	<p><b>Vapour treatment:</b> 9.6 mL/100 m<sup>3</sup></p>	<p><b>Vapour treatment:</b> Maximum of 3 applications per crop, per cycle. Minimum 7-day spray interval. Make no application closer than 2 days to harvest.</p> <p>Apply to cold pipes only. <b>Do not</b> apply to hot pipes. Apply undiluted to cold pipes by means of a plastic squeeze bottle. Do not apply using a paint brush or any other method. Make application when plants are dry. Apply continuously or to intermittent sections of pipe on each side and on one or more pipes through the centre of each range depending on the width of the range. Application to cold pipes should be followed by immediate heating of pipes to 41°C in steam houses, close vents for at least 1 hour after pipes are hot. With hot water systems, close house for at least 3 hours. Houses may remain closed overnight following treatment. Do not re-enter treated areas for 48 hours after application.</p> <p>Thoroughly ventilate premises before re-entering. If the greenhouse cannot be ventilated after vapour treatment or fogging, the application should not be made. Protect beehives in cucumber houses by covering with plastic or rubber sheet during treatment</p>

			<p>and until house is ventilated.</p> <p>NOTE: Dibrom Insecticide has not been assessed for phytotoxicity to all varieties of roses and cut flowers. If in doubt about crop safety, treat a small area of the crop to assess phytotoxicity before treating the entire greenhouse.</p> <p>WARNING: Avoid over treatment and direct application to plants as injury may result. White butterfly roses, golden rapture, green wandering Jew and Dutchman's pipe may be injured by Dibrom Insecticide vapour treatment.</p>
In and around dairy barns, livestock barns, pig pens, poultry houses, cider mills, wineries	House fly, lesser house fly, mosquitoes, gnats, fruit flies ( <i>Drosophila</i> sp.)	2.9 mL / L of water	<p><b>Space spray:</b></p> <p>Direct spray throughout fly infested area. In dairy barns, livestock barns and pig pens spray around and above animals but not directly at animals. If animals must be handled within 48 hours of application wear chemical-resistant gloves. Do not use in milk processing rooms. Do not use inside dwellings. Do not use in poultry houses when birds are present. Do not apply to birds or contaminate eggs with spray.</p>
Cider mills, wineries	Fruit flies ( <i>Drosophila</i> sp.)	5.8 mL/ L of water	<p><b>Coarse spray:</b></p> <p>Apply as a coarse spray to walls, floors, doorways, windows, refuse and cull piles where insects congregate. Do not apply to cull fruit or refuse piles to be fed to livestock. Avoid contamination of feeds, foodstuffs and food processing machinery. Do not apply when plants are in operation or when foods are present or exposed. Do not spray surfaces that will come into contact with foods. Cover food containers during spraying periods.</p>
Outdoor ornamentals: roses, dahlias, chrysanthemums, Canterbury bells, arborvitae, pittosporum, snowball, Chinese magnolia, aucuba, zinnia, stocks, azalea, willow, privet	Aphids, leafhoppers, red spider mites, tent caterpillars, birch and holly leafminers, willow leaf beetle	1.2 L/1000 L of water	<p>Ground spray application only. Thorough spray coverage and contact of insects are necessary.</p>

Woodland	Mosquitoes, gnats, house fly	122 –305.3 mL/ha	<b>Mist blower application:</b> For areas less than 500 ha only. Dilute 6.7-11.5 L/1000 L of water. Calibrate equipment (rate of travel and output) to apply 122–305.3 mL /ha. Make applications during peak of infestation. Equipment used for spraying should not be washed in the vicinity of lakes or streams.
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**NOTE TO USER:**

**READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for this product the for the uses described below were developed by persons other than Loveland Products Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Loveland Products Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed on this label.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Loveland Products Canada Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the use(s) described below.

**GREENHOUSE TOMATOES**

For use on greenhouse tomatoes for the control of exposed life stages of leafminers.

Crop	Pest	Rate	When to Apply	Remarks
Greenhouse Tomatoes	Leaf-miners	Vapour: 9.6 mL DIBROM per 100 cubic meters of greenhouse space.	Minimum of 7-day spray interval. Maximum of 3 applications per crop cycle.	Treat as described above, under 'Greenhouse Vapour Treatment'. Make no application closer than 2 days to harvest.

**NOTE TO USER:**

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Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Loveland Products Canada Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the use(s) described below.

**GREENHOUSE EGGPLANT**

For use on greenhouse eggplant for the control of whiteflies, spider mites, leafrollers, aphids and mealy bugs.



<b>Crop</b>	<b>Pest</b>	<b>Rate</b>	<b>When to Apply</b>	<b>Remarks</b>
Greenhouse Eggplant	whiteflies, spider mites, leafrollers, aphids and mealy bugs.	Vapour: 9.6 mL DIBROM per 100 cubic meters of greenhouse space.  Fog: 6.7- 13.4 mL per 100 square meters of greenhouse space.	One application per crop cycle, after the last harvest at the end of the cropping cycle.	<u>Greenhouse Vapour Treatment:</u> Apply using a squeeze bottle only. Do not apply using a paintbrush or any other method. Apply to cold pipes only. Do not apply to hot pipes. <u>Greenhouse Fogging Treatment:</u> Apply with automated fogging equipment only. All workers must vacate the premises during the fogging operation.

**NOTE TO USER:**

**READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for this product the for the uses described below were developed by persons other than Loveland Products Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Loveland Products Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed on this label.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Loveland Products Canada Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the use(s) described below.

**GREENHOUSE PEPPERS**

For use on greenhouse Peppers for the control of whiteflies, spider mites, aphids, leafrollers mealy bugs, pepper weevil and tomato psyllid.

<b>Crop</b>	<b>Pest</b>	<b>Rate</b>	<b>When to Apply</b>	<b>Remarks</b>
Greenhouse Peppers	whiteflies, spider mites, aphids, leafrollers mealy bugs, pepper weevil and tomato psyllid.	Vapour: 9.6 mL DIBROM per 100 cubic meters of greenhouse space.  Fog: 6.7- 13.4 mL per 100 square meters of greenhouse space.	One application per crop cycle, after the last harvest at the end of the cropping cycle.	Greenhouse Vapour Treatment: Apply using a squeeze bottle only. Do not apply using a paintbrush or any other method. Apply to cold pipes only. Do not apply to hot pipes. Greenhouse Fogging Treatment: Apply with automated fogging equipment only. All workers must vacate the premises during the fogging operation.

## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

Concentrate may cause skin damage.

Do not get on skin, eyes or clothing.

Use waterproof gloves and face shield or goggles when handling concentrate.

Harmful if swallowed.

Avoid breathing spray mist.

Avoid contamination of feed, foodstuffs and drinking water.

Do not use or store near heat or open flame.

May corrode metal spray equipment.

Wash equipment thoroughly after use.

May be toxic to bees; avoid application during periods of bee activity.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca).

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

## **FIRST AID**

**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 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.

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. 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**

Naled is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness, tremor, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is

signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician. NOTE: Product contains a petroleum distillate solvent. Vomiting may cause aspiration pneumonia.

## **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 information on 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:** 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. The user assumes the risk to persons or property that arises from any such use of this product.

DIBROM® Insecticide is a registered trademark of AMVAC CHEMICAL CORPORATION.