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Bug Buster

Insecticide / Fungicide / Acaricide

COMMERCIAL (AGRICULTURAL)

EMULSIFIABLE CONCENTRATE

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL BEFORE USING

CAUTION SKIN IRRITANT

ACTIVE INGREDIENT

Canola Oil 95%

REGISTRATION NO. 35047 PEST CONTROL PRODUCTS ACT

Net contents: XX L

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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.

Bug Buster

95% Canola Oil Insecticide / Fungicide / Acaricide

Bug Buster is an Insecticide, Miticide and Fungicide for dormant and growing season use. Bug Buster can be used indoors, outdoors and in the greenhouse on most fruit, vegetables, field crops, flowers, shrubs, nut and fruit trees, houseplants and indoor grown cannabis.

For the control of: aphids, adelgids, mealybugs, mites, scale, grape phylloxera, oak phylloxera, psyllids (including pear psylla), whitefly, and the suppression of powdery mildew.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

May irritate the skin. Avoid contact with eyes, skin and clothing. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Restricted-Entry Interval (REI): DO NOT enter or allow worker entry into treated areas for 4 hours or until sprays have dried unless wearing the following personal protective equipment: waterproof gloves, long-sleeved shirt, long pants and socks with shoes.

Pre-harvest interval (PHI): 0 days. May be applied up to the day of harvest.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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 on skin or clothing: Take off contaminated clothing. Wash skin with soap and water. 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.

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.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

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

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

Greenhouse use: Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). May harm certain beneficial arthropods, including those used in greenhouse production. Avoid application when beneficial arthropods are in the treatment area.

To reduce run-off from treated areas into aquatic habitats avoid application to area 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.

STORAGE

Store product in original container, in a cool, dry location. 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 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.

DIRECTIONS FOR USE

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.

DO NOT allow releases, effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

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.

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.

DO NOT apply by air

DO NOT apply through irrigation system

When handling, wear protective equipment including gloves, mask and eye protection.

Mix 1 part concentrate to 45 parts water (100 mL concentrate for every 4500 mL water) to make a 2% solution. Shake well before and during use.

1. Add sufficient water to the mixing tank to allow proper agitation.
2. While agitating, add required amount of Bug Buster, and then the remaining water.
3. Flush fluid in sprayer hose lines back into the tank if more than 20 minutes passes without agitation or stirring.

Application Instructions

ALWAYS dilute this product and apply it as a 2% solution. NEVER apply concentrate directly.

Ensure complete coverage of affected areas. Agitate consistently throughout use.

Apply as needed to a maximum of 2 dormant season applications and 4 summer applications per year.

SPRAY BUFFER ZONES

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage.

The spray 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		Spray Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	For field crops		1	1	1	1
Airblast or high pressure hydraulic sprayer	Hops, trees (fruit, nut, ornamental, shade), grapes, kiwi	Early growth stage	5	1	5	2
		Late growth stage	3	1	3	1

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 (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

Pest and Site Specific Application Rates

Apply as a 2% solution.

Total spray volumes of 700-1900 litres per hectare are recommended.

Pest: aphids, mealybugs, mites, scales, whiteflies

Crop	Application Instructions
Greenhouse and outdoors: Flowering, foliage and bedding plants	Apply every 7-14 days as required with first application when pests appear
Indoor ornamental plants and plantscapes	
Onions	
Lettuce, celery, chard	
Broccoli, cabbage, cauliflower, kale	
Soybeans, beans, peas	
Fruiting vegetables (eggplant, bell peppers, African eggplant, pea eggplant, scarlet eggplant, garden huckleberry, goji berry, ground cherry, martynia, okra, naranjilla, pepino, non-bell pepper, roselle, sunberry, tomatillo, tomato, bush tomato, currant tomato, tree tomato)	
Cucurbit vegetables (chayote (fruit), Chinese waxgourd (Chinese preserving melon), citron melon, cucumber, gherkin, edible gourd (includes hyotan, cucuzza), edible gourd (includes hechima, Chinese okra), <i>Momordica</i> spp. (includes balsam pear, bitter melon, Chinese cucumber), muskmelon (includes true cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls mango melon, Persian melon, Pineapple melon, Santa Claus melon and snake melon), pumpkin, summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), winter squash (includes butternut squash, calabaza, hubbard squash), acorn squash, spaghetti squash, watermelon	
Asparagus	
Corn	
Roses	Dormant and summer applications; Apply every 7-14 days as needed with first treatment when pests appear

Pest: Powdery mildew (suppression)

Crop	Application Instructions
Roses	Initiate when disease first appears; repeat every 7-14 days as required (7 day interval recommended under moderate to high disease pressure)
Flowering cherry, crabapples, hawthorn, flowering peach, flowering plum and pyracantha	Initiate when disease first appears; repeat every 7-14 days as required (7 day interval recommended under moderate to high disease pressure)
Cucurbit vegetables (chayote (fruit), Chinese waxgourd (Chinese preserving melon), citron melon, cucumber, gherkin, edible gourd (includes hyotan, cucuzza), edible gourd (includes hechima, Chinese okra), momordica (includes balsam pear, bitter melon, Chinese cucumber), muskmelon (includes true cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls mango melon, Persian melon, Pineapple melon, Santa Claus melon and snake melon), pumpkin, summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), winter squash (includes butternut	Initiate treatments when conditions are favourable for disease development or at first appearance of disease; repeat every 7-14 days (7 day interval is recommended under moderate to high disease pressure)

squash, calabaza, hubbard squash), acorn squash, spaghetti squash, watermelon	
Apple, pear	Initiate sprays at first appearance of disease and repeat every 7-14 days (7 day interval is recommended under moderate to high disease pressure)
Apricots, cherries, nectarines, peaches, plums, prunes, sour cherry	Initiate when disease first appears and repeat every 7-14 days (7 day interval is recommended under moderate to high disease pressure)
* for peaches – only use one dormant application per season; certain varieties of plums and prunes may be injured by oil sprays. Do not apply to trees lacking moisture	
Blackberry, buffaloberry, cloudberry, currant, elderberry, gooseberry, jostaberry, juneberry, raspberry, strawberry, grape	Initiate sprays when disease first appears and repeat every 7-14 days (7 day interval is recommended under moderate to high disease pressure)
* oil removes the bloom on grapes. Do not spray on table grapes within 2 weeks before harvest; do not use on strawberries when temperatures are high	
Hops * discontinue sprays at burr development	Initiate treatment when disease first appears and repeat every 7-14 days as required (7 day interval is recommended under moderate to high disease pressure)
Cannabis (produced commercially indoors) * do not apply to flowers	Initiate treatment when disease first appears and repeat every 7-14 days (7 day interval recommended for moderate to severe disease pressure)

Pest: Aphids, scales, mealybugs, mites, psyllids, whiteflies

Crop	Application Directions
Beets, carrots, potatoes, radishes, rutabagas, sugar beets, turnips	Apply every 7-14 days as required with first application when pests appear

Pest: Aphids, scales, mites, pear psylla (dormant season only)

Crop	Application Directions
Apple, pear	Dormant to green tip and summer application; avoid application during bloom. Initiate treatments at first appearance of pest and repeat every 7-14 days as required

Pest: Aphids, mites, whiteflies

Crop	Application Directions
Cannabis (produced commercially indoors) * do not apply to flowers	Apply every 7-14 days as required with first application when pests appear

Pest: Aphids, scales, mites

Crop	Application Directions
Apricots, cherries, nectarines, peaches, plums, prunes, sour cherry	Dormant to pre-bloom and summer application; initiate when pests first appear and repeat every 7-14 days as required
Hazelnuts, chestnuts, pecans, walnuts	Dormant to pre-bloom and summer application; initiate when pests first appear and repeat every 7-14 days as needed

Pest: Aphids, grape phylloxera (only exposed stages), mealybugs, mites, scales

Crop	Application Directions
Berries (amur river grape, aronia berry, bayberry, bearberry, blueberry (highbush and lowbush), buffalo currant, buffaloberry, che, Chilean guava, chokecherry, cloudberry, cranberry, currant (black and red), elderberry, European barberry, gooseberry, grape, highbush cranberry, edible honeysuckle, huckleberry, jostaberry, juneberry (Saskatoon berry), kiwifruit (fuzzy and hardy), lingonberry, maypop, mountain pepper berries, mulberry, muntries, native currant, partridge berry, phalsa, pincherry, raspberry (black and red), riberry, salal, schisandra berry, sea buckthorn, serviceberry, strawberry, wild raspberry)	Dormant and summer application; initiate when pests appear and repeat every 7-14 days as required

Pest: Spider mites

Crop	Application Directions
Alfalfa (animal feed)	Apply every 7-14 days as required with first application when pests appear

Pest: Aphids, adelgids (only exposed stages), oak phylloxera (only exposed stages), psyllids, scales, whiteflies

Crop	Application Directions
Ornamental and shade trees (flower and foliage plants, ash, birch, barberry, flowering cherry, crabapples, dogwood, elm, evergreens, hawthorn, holly, lilac, magnolia, maple, oak, pine, flowering peach, flowering plum, privet, pyracantha, spruce, sycamores, tuliptree, willow) and ornamental shrubs	Dormant, pre-bloom and summer application; Initiate treatment when pests appear and repeat every 7-14 days as required

Insect Control

Apply Bug Buster at first sign of infestation. Thoroughly spray on plants until the plant parts are completely wetted, including the underside of leaves. Insects, mites and their eggs must be physically contacted with spray. Reapply at a minimum 7 day interval as required.

Powdery Mildew Suppression

Start spraying Bug Buster at first appearance of powdery mildew. Thoroughly cover upper and lower leaf surfaces. Reapply every 7-14 days as required (moderate to high mildew presence may require treatment every 7 days). Spray Bug Buster at pre-bloom and early leaf stages to prevent infection and protect new growth.

Dormant Use

Controls overwintering life stages (including eggs) of pests present in dormant seasons (eg. Scale insects, mites, mealybugs) on shrubs, evergreens, woody plants, fruit trees and shade trees.

Use Precautions

Avoid application to flowering plants when honey bees are foraging.

Do not apply when temperature exceeds 32°C, or is close to freezing. Ensure crops are free of heavy moisture and do not apply when heavy rain is forecast.

For foliage application the spray tank must be free of sulfur residue before using this product. Do not combine sulfur sprays with this product during spring and summer months. Do not use within 30 days before or after sulfur treatment.

Do not use in combination with or closely following treatment with dinitro compounds, fungicides such as Captan and Folpet, or copper compounds, as phytotoxicity may result. If in doubt, treat a small area with a combination spray and wait several days to determine if burn occurs.

Specific Plant Precautions

Not all species or varieties have been tested for phytotoxicity. It is recommended that a small group of test plants be treated and observed for several days to determine phytotoxicity before treating large numbers of those plants.

Some plants, such as **roses**, **apple** trees and **strawberries**, are sensitive to multiple applications of oil products. Use caution with repeat sprays.

Avoid application during bloom on **apples** and **pears**. On peaches use only one dormant application per season. Certain varieties of **plums** and **prunes** may be injured by oil sprays. Do not apply to oil sensitive varieties. Do not apply to trees lacking moisture.

Oil removes the bloom on **grapes**. Do not spray table grapes within 2 weeks before harvest. Do not use on **strawberries** when temperatures are high.

Discontinue sprays at burr development on **hops**.

Oil removes the glaucous (blue) bloom from evergreens such as **Colorado Blue Spruce** and **Koster Spruce**. Use caution on blooms and buds and on oil sensitive plants such as **Chamaecyparis**, **Cryptomeria**, **Japanese Holly**, **Red Cedar** and **Smoke Tree**.