

FORESTRY: LEDGEPOLE PINE - MOUNTAIN PINE BEETLE

General Information

GENERAL PRECAUTIONS

Do not get in eyes, on skin or on clothing. Avoid breathing vapour or spray mist. Handle only with adequate ventilation. See Mixer/Loader and Applicator Precautions for protective equipment requirements. Wash thoroughly with soap and water after handling and before eating or smoking. Immediately remove contaminated clothing and wash separately from other laundry before reuse. Destroy contaminated leather articles, including shoes. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. COMBUSTIBLE. Do not store or use near heat or open flame.

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 web site at: www.croplife.ca.

RESISTANCE MANAGEMENT

For resistance management, please note that Citadel 480 EC Insecticide contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to Citadel 480 EC Insecticide and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides 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 resistance: Where possible, rotate the use of Citadel 480 EC Insecticide or other Group 1B insecticides with different groups that control the same pests, in a field. 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, 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 Interprovincial Cooperative Limited at 1-204-233-3461.

Limitations, Restrictions, and Exceptions

RESTRICTED USE:

- Ground application only (DO NOT APPLY BY AIRCRAFT). For use in Western Canada only

- NATURE OF RESTRICTION: This product is to be used only in the manner authorized. Contact local pesticide regulatory authorities about appropriate use permits that may be required.

To be applied only under the direct supervision of commercial applicator responsible for insect control programs.

For ground use only to control small infestations of mountain pine beetle in lodgepole pine forest stands. Monitor stands from mid-June to mid-July to determine the trees that are infested. Treated infested trees within a few weeks of expected beetle emergence, usually early July, to kill the adult beetles. Avoid spraying when conditions favour drift from spray area.

Prepare a spray solution of 41.7 L /1000 L of water to make a spray containing 2% active ingredient by weight. Apply at a rate of 1 L spray /m² of bark prior to adult beetle emergence. Treat boles from ground level up to a height of at least 3 m or until a bole diameter of 12.5 cm is reached.

Method

[Broadcast/Foliar Ground](#)

Rates

[field_rates 0](#)

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Timings

[N. A.](#)