FOR THE CONTROL OF COLORADO POTATO BEETLE IN POTATOES IN THE STATES OF COLORADO, IDAHO, NEBRASKA, NEVADA, OREGON, WASHINGTON, AND WYOMING

General Information

PRODUCT INFORMATION

VYDATE C-LV is a water soluble liquid to be diluted with water. For cotton applications, VYDATE C-LV may also be mixed with refined vegetable oil.

Use only in commercial and farm plantings; do not use in home plantings.
Do not formulate this product into other End-use products.
Seed piece treatments are prohibited.

All applications to the soil must be incorporated immediately after application to a depth of at least 2 inches by mechanical means or by water. For best results, place VYDATE in the root zone of the plant. If irrigation is used to water in the application, use sufficient water to move the applied VYDATE at least 2 inches deep in the soil. However, do not apply irrigation water such that the water moves off the field.

INTEGRATED PEST MANAGEMENT

DuPont supports the use of Integrated Pest Management (IPM) programs to control pests. Use this product as part of an IPM program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes-of-action, and treating when target pest populations reach locally determined action thresholds.

Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

RESISTANCE
For resistance management, VYDATE C-LV is a group 1A insecticide. Repeated exclusive use of VYDATE C-LV or other group 1A insecticides may lead to the buildup of resistant strains of insects in some crops. Not all members of this group have been shown to be cross-resistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different sub-groups within this group may be an acceptable part of an integrated pest management program.

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, this product may be used as part of resistant management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

APPLICATION

Apply at the labeled rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatments in your area.

Apply follow-up treatments of VYDATE C-LV, if needed, to keep pest populations within threshold limits. The minimum application interval for each crop is noted in the crop specific directions for use. VYDATE C-LV is a water soluble liquid. Once in solution, no further agitation is required, except when applications are made to cotton in oil. Use sufficient water to obtain thorough, uniform coverage.

VYDATE C-LV can be applied by ground, aerial or chemigation application equipment. See the crop specific directions for use for the application equipment that may be used for each crop. For ground applications, use the following directions, unless otherwise specified in this label; use a minimum of 5 gallons per acre of water. For aerial applications, use the following directions, unless otherwise specified in this label: use a minimum of 2 gallons per acre (gpa) of water.
Use of Adjuvants: In some situations where coverage is difficult to achieve, such as, closed canopy, dense foliage, plants with waxy leaf surfaces, or less than optimal application equipment, an adjuvant may improve performance.

Limitations, Restrictions, and Exceptions

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Application Information

Apply DuPont VYDATE C-LV Insecticide/Nematicide to potatoes by ground or overhead sprinkler irrigation systems.

VYDATE C-LV is soluble in water and moves with the irrigation water. For best results apply via overhead sprinkler systems. Foliar applications by ground equipment for suppression of nematodes should only be used where it is not possible to apply via chemigation. Where ground application is used, VYDATE C-LV should be incorporated with enough irrigation water to completely cover all of the tubers in the hill immediately after application. Because ground application is not as effective as chemigation, nematode damage may occur.

Sprinkler Irrigation Application

VYDATE C-LV may be applied by overhead irrigation systems. VYDATE C-LV is soluble in water and moves in the soil with the irrigation water. Use enough irrigation water to completely cover the entire tuber/root zone, especially tubers at the bottom of the hill. On sand, loamy sand, and sandy loam soils use approximately 0.5 inch of irrigation water; finer textured soils may require more. For center pivot systems, VYDATE C-LV application can be made with lower amounts of water (0.10 to 0.20 acre inch) providing this application is immediately followed by a standard irrigation so that the total amount of water applied is at least 0.5 acre inch.

For solid set and wheel-line systems, inject the appropriate amount of VYDATE C-LV at the beginning of the irrigation cycle and adjust metering rate so that all of the VYDATE C-LV is applied during the first half of the irrigation cycle.

Always buffer the VYDATE C-LV injection solution to a pH of 5.0 or lower. Phosphoric
acid or N-phurric fertilizer solutions may also be used to buffer high pH irrigation water used with VYDATE C-LV applications.

In-Furrow Application: Apply VYDATE C-LV as a concentrated band spray in the seed row with the spray nozzle positioned behind the planter tube. Adjust nozzle height so that spray pattern is 6-8 inches wide covering the bottom and sides of the furrow.

Control of Colorado Potato Beetle

Apply Vydate(R) C-LV at 2.1 pints/acre by air, ground or chemigation via overhead sprinkler. For overhead sprinkler chemigation applications, inject Vydate(R) C-LV at 2.1 pints/acre using not more than 0.10 to 0.25 acre inch of water as the carrier.

NOTE: Do not make more than 8 foliar applications of VYDATE C-LV per acre per crop. Last application (days to harvest) = 7 days.

USE PRECAUTION - SPRINKLER IRRIGATION APPLICATIONS

Apply this product through overhead sprinkler irrigation equipment including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, mini (micro) sprinkler, hand move irrigation systems. Do not apply this product through any other type of irrigation system.

Application should be in sufficient water and of sufficient duration to apply the recommended rate evenly to the entire treated area.

Do not allow irrigation water to collect or run-off during chemigation.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact state extension service specialists, equipment manufacturers, or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
Wear personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the
chemigation system when DuPont VYDATE C-LV is in the irrigation water.

When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

A pesticide supply tank is recommended for the application of VYDATE C-LV in chemigation systems. VYDATE C-LV is a water soluble liquid. Once in solution, no further agitation is required. VYDATE C-LV is compatible with most commonly used plant protectants with the exception of Bordeaux mixtures, lime sulfur and spray oils. Highly alkaline water should be buffered so that the pH of spray solution is in the range of neutral to slightly acidic.

Do not connect any irrigation system (including greenhouse systems) used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

Method

Broadcast/Foliar Ground
In Furrow
Band application
Irrigation

Rates

field_rates 0

Restricted Entry Interval

48 hours

Timings

When insect populations reach locally determined economic thresholds.