

Delegate™

INSECTICIDE



RAPID CONTROL OF COLORADO POTATO BEETLE

Delegate Insecticide will provide excellent control of the Colorado Potato Beetle for potato growers across Canada. Delegate is the newest product from the 'spinosyn' family of chemistry which features the favourable environmental profile of a biological product with efficacy of synthetic technologies.

Delegate's unique mode of action controls insects two ways, through ingestion and contact, and provides rapid control of targeted pests and is active across multiple insect growth stages. Insects stop feeding within minutes which offers excellent crop protection.

ACTIVE INGREDIENT

Spinetoram - Group 5 insecticide

PACKAGING AND FORMULATION

Jug - 840 grams
Case - 6 × 840 grams

Delegate is formulated as a wettable granule (WG). Two measuring devices are provided in each case of Delegate for easy application measuring and mixing.

DELEGATE OFFERS

- Long lasting control of a broad spectrum of insect pests in a variety of crops
- Applications at lower use rates than many conventional insecticides reducing its environmental footprint
- Unique mode of action, making it an ideal fit for resistance management programs
- A very favourable toxicological profile
- Has low impact to most beneficial insects, providing an excellent fit with Integrated Management (IPM) programs

MODE OF ACTION

Spinetoram, the active ingredient in Delegate, is derived through the fermentation of a naturally occurring organism, *Saccharopolyspora spinosa*, as are other spinosyns. Fermentation is followed by chemical modification to create the unique, innovative, active ingredient in Delegate. Generally, Delegate affects the insect nervous system and no other class of products - organophosphates, carbamates, pyrethroids, neonicotinoids - affects the insect nervous system with the same mode of action as Delegate. It does not interact with the known binding sites of other classes of insecticide. Because of Delegate's unique mode of action, it is an excellent rotational product that can be used in an IPM system. The spinosyn family of chemicals, spinetoram (Delegate) and spinosad (Success, Entrust, GF-120), are the only Group 5 insecticides in the fruit and vegetable market. Delegate's unique mode of action controls insects two ways, primarily through ingestion and secondarily through contact, providing quick knockdown and residual activity. Delegate also moves into and across leaf tissue offering translaminar activity.

RESISTANCE MANAGEMENT TOOL

Delegate is an excellent tool for potato growers managing neonicotinoid resistance in seed treatments. Delegate's unique mode of action affects the insect's nervous system like no other, providing rapid and consistent results growers can count on. Delegate is labelled for a maximum of 3 applications per year.

SAFETY TO BENEFICIALS

Even though Delegate offers higher insecticidal activity on targeted pests, the toxicity of Delegate to natural enemies is low. Delegate has limited toxicity to beneficial, predatory insects such as lacewings and ladybird beetles. The relatively short environmental persistence and the greater activity through ingestion vs contact mitigates Delegate's effect on desirable species making it an excellent fit in IPM programs. Once the spray deposit has dried, impact on sensitive species is greatly reduced. Delegate is non toxic to bees when the spray residue is dry for three hours. Do not apply when bees are actively foraging.



Dow AgroSciences

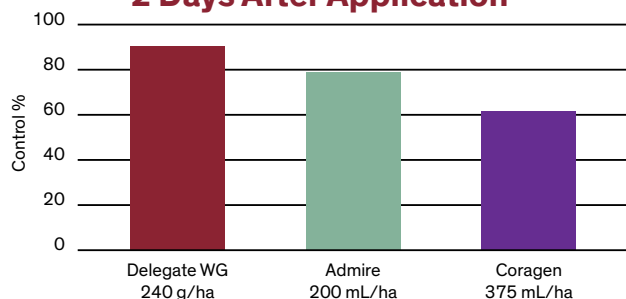
Solutions for the Growing World

DelegateTM

INSECTICIDE

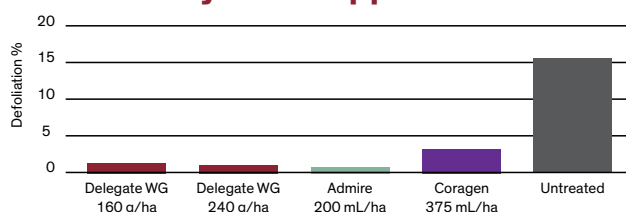


Speed of Knockdown of Colorado Potato Beetle, MB 2 Days After Application

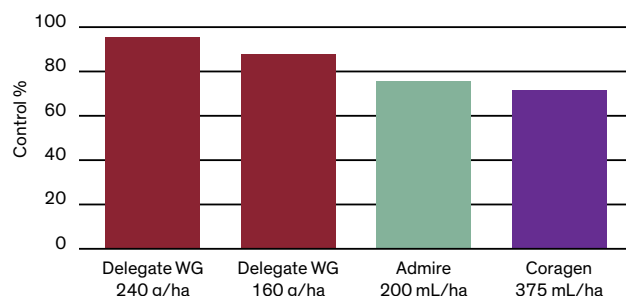


One Research Trial in MB in 2009

Percent Defoliation by Colorado Potato Beetle, MB 2 Days After Application



Control of Colorado Potato Beetle, MB 5 Days After Application

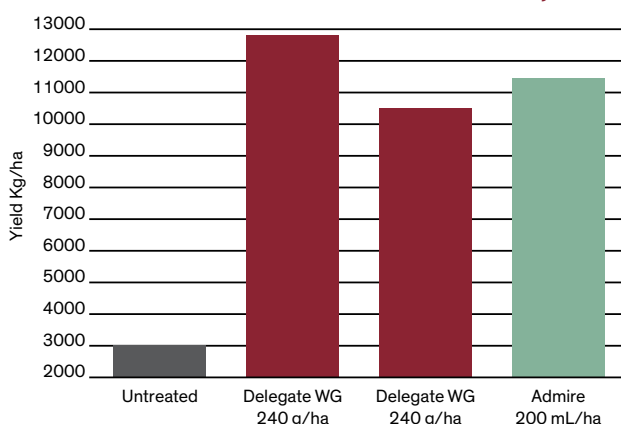


One Research Trial in MB in 2009

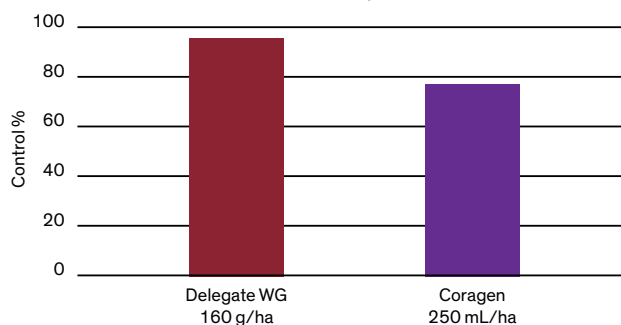
PERFORMANCE

Delegate is registered for control of Colorado Potato Beetle and European Corn Borer in potatoes. Independent research studies were conducted between 2006 and 2009. Results from these independent research studies indicated that Delegate provided excellent control of both Colorado Potato Beetle and European Corn Borer compared to competitive standards.

Control of Colorado Potato Beetle, PEI



Stem Infestation Control of European Corn Borer, PEI



Source: Independent research trial in PEI in 2009

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