



Ranman[®] fungicide protects yields

with a new mode of action in Potatoes.

Ranman[®] fungicide, marketed by FMC, has a unique mode of action that provides highly effective control and excellent prevention of **Late blight** and **Late blight tuber rot** when applied as a foliar treatment. Unlike most fungicides that only control some disease stages, Ranman is active in all stages of the disease life cycle. It provides excellent protection against diseases caused by oomycetes, especially infection by pathogens of the genera *Phytophthora*, *Pythium* and *Plasmopara*. Ranman is an excellent fungicide for protecting yields in potatoes.

LABELED CROPS AND DISEASES:

Ranman prevents **Late blight** and **Late blight tuber rot** on potatoes. A short pre-harvest interval of 7 days in potatoes fit common cultural practices. Re-entry is 12 hours. Crops not on the label can be planted 30 days after the last application. Ranman is not recommended for use in greenhouses.

SPECIFIC CROP USE INFORMATION:

Potatoes:

Late blight prevention - Apply as a foliar spray using 0.1 to 0.2 L/ha on a 7 day schedule. Begin applications when warning systems forecast disease infection periods and conditions favorable for disease development. Use higher rates when increased disease pressure is present.

Late blight tuber rot control - Ranman provides excellent prevention of Late blight tuber rot, ensure at least 2-3 applications of Ranman prior to desiccation at the maximum rate 0.2 L/ha.

All foliar applications of Ranman should be made with a surfactant in accordance with the product label.

GOOD RESIDUAL ACTIVITY:

Ranman's affinity to waxy surfaces of the crop ensure superior rain fastness and long residual control.

UNIQUE MODE OF ACTION:

The unique mode of action of the active ingredient inhibits all stages of oomycetes fungal development, including zoospore release and motility, cytoplasmic germination, mycelial growth, oospore formation, and zoosporangia formation.

GOOD SPREADING PROPERTIES:

Ranman has very low water solubility (0.1 ppm) but good spreading properties on the plant surface. The use of an adjuvant further promotes thorough plant coverage. Outstanding wetting ability on crop foliage is a beneficial characteristic, especially for protectant and locally systemic fungicides, as thorough foliage coverage is desired. Rainfastness forms very soon after Ranman application.

EXCELLENT FUNGICIDE PROTECTION:

Ranman is a contact fungicide, which is classified as a protectant with anti-sporulating effects and has limited systemic activity. It can be applied by ground, as a foliar treatment.

ONLY FUNGICIDE PROTECTION:

Ranman is formulated as a suspension concentrate (SC) with 400 g/L of the active ingredient cyazofamid. Ranman belongs to the cyanoimidazole chemical class and is the only fungicide in FRAC Group 21.

RESISTANCE MANAGEMENT:

Ranman provides growers with a much-needed novel mode of action for resistance management as an alternative to existing fungicides. Ranman is a key product for the prevention of **Late blight tuber rot**. There is no documented cross-resistance of Ranman with existing fungicides. Ranman should be part of a disease management program that includes alternate sprays of fungicides with differing modes of action. Do not make sequential applications of Ranman and do not make more than 6 applications of Ranman per season

NON-VOLATILE PRODUCT:

Ranman is classified as a non-volatile compound because the active ingredient has a low vapor pressure ($<1.33 \times 10^{-5}$ pascals @ 25° C).

REDUCED RISK CHEMISTRY:

The active ingredient in Ranman has minimal to moderate acute toxicity in acute oral, dermal and inhalation tests. It is minimally irritating to eyes and skin, and is a weak dermal sensitizer.

PACKAGE SIZE:

Available in 4 x 3.79 L Case

For more information, please visit our website www.uap.ca or your local Retailer



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