



SHIRLAN – izjemno učinkovit “multi-site” fungicid za varstvo pred krompirjevo plesnijo

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Shirlan je izjemno učinkovit “multi-site” fungicid za varstvo pred krompirjevo plesnijo, ki jo povzroča gliva *Phytophthora infestans*. Ker odlično varuje tako listno gmoto kot gomolje, zagotavlja visoke in kakovostne pridelke krompirja. Shirlan vsebuje aktivno snov fluazinam. Uporablja se v majhnih odmerkih, odlikuje pa ga izjemna odpornost proti izpiranju z dežjem.

Fluazinam pripada kemični skupini diarilaminov. Nespecifično ovira energetske procese v mitohondrijih gliv in dihanje. Posledica motenja energetskih procesov je oviranje kalitve spor, tvorbe apresorijev, prodiranja in rasti hif, sporulacije in gibljivosti zoospor. Zaradi velike širine delovanja na razvoj gliv je fluazinam edinstven, saj združuje lastnosti tako sistemskih kot kontaktnih fungicidov v eni učinkovini.

Fluazinam je preventivni in protektivni dotikalni fungicid. Kurativno delovanje je malo izraženo, nima sistemčnega delovanja, odlikujeta pa ga dobro rezidualno delovanje in izredna odpornost na izpiranje z dežjem.

Biotično delovanje fluazinama so raziskali na več vrstah gojenih rastlin. Fluazinam ima širok spekter delovanja in preventivno dobro deluje na naslednje rodove gliv: *Alternaria*, *Botrytis*, *Colletotrichum*, *Phytophthora*, *Pseudoperonospora*, *Plasmopara*, *Sclerotinia*, *Venturia*. Zaradi specifičnega načina delovanja je nevarnost za nastanek odpornosti gliv na fluazinam izredno majhna.

ABSTRACT

SHIRLAN – multi-site fungicide with particular efficacy against potato late blight

Shirlan is a multi-site fungicide with particular efficacy against potato late blight caused by *Phytophthora infestans*, providing yield and quality benefits through control of foliar and tuber blight. Shirlan contains the active ingredient fluazinam. The product is used at low dose rate and is characterised by a high level of rainfastness.

Fluazinam belongs to the chemical group of the diarylamine. It is a non-specific blocker that disrupts energy production in the fungus mitochondria and inhibits respiration. The results of this energy disruption is an inhibition of: spore germination, appressoria formation, hyphal penetration and growth, sporulation and zoospore mobility. Wide range of impact on fungus makes fluazinam unique since the characteristics of systemic and contact fungicides are combined in a single active ingredient.

Fluazinam is a preventive and protective contact fungicide. It has little curative and no systemic activity but good residual effect and extreme rain fastness.

The fungicidal spectrum of fluazinam has been examined on several crops. Fluazinam has a broad antifungal spectrum and shows good preventive effect against plant diseases caused by: *Alternaria*, *Botrytis*, *Colletotrichum*, *Phytophthora*, *Pseudoperonospora*, *Plasmopara*, *Sclerotinia*, *Venturia*. From the mode of action point of view fluazinam has an extremely low potential of resistance risk.

