



PYRINEX CS - Mikroinkapsulirani organski fosforni insekticid, idealen za integrirano varstvo sadnega drevja in vinske trte

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Uporaba organskih fosfornih insekticidov se je z uveljavitvijo integriranih načel pridelave močno skrčila, saj veliko pripravkov zaradi svoje strupenosti in negativnega vpliva na koristno entomofavno ni moglo zadostiti zahtevkom ki veljajo pri integrirani pridelavi oz. varstvu rastlin. Tako je ostala le peščica organskih fosfornih insekticidov, ki jih lahko poleg pripravkov iz skupine M.A.C. in IRI, uporabimo v t.i. IPP, kar pa je premalo za dobro in učinkovito varstvo pred škodljivci.

Pri nas se v sadjarstvu ta problem najmočneje občuti pri zatiranju jabolčnega zavijača (*Cydia pomonella*) in breskovega zavijača (*Cydia molesta*), v vinogradništvu pa ni večjih problemov, razen na določenih vinogradnih območjih, kjer so se zaradi večletne uporabe M.A.C. in IRI pripravkov, vrnilo kapar, škrtžati in z njimi seveda tudi virusna obolenja.

Pyrinex 25 CS je organski fosforni insekticid, na osnovi dobro znane učinkovine klorpirifos-etila, vendar je za razliko od drugih, na našem tržišču registriranih pripravkov, formuliran v obliki mikroinkapsulirane suspenzije, kar omogoča nadzorovano in postopno sproščanje učinkovine.

Prednosti tega pripravka so: občutno nižja strupenost (akutna oralna LD₅₀ je 40 x višja od formulacije klorpirifos etila EC!) dolgo delovanje - do 3 tednov, manjši vpliv na neciljne osebe, visoka selektivnost, širok spekter delovanja, varnost pri transportu in skladiščenju, majhna nevarnost za uporabnika in okolje, nima vonja, primeren za IPP in programe za preprečevanje pojave odpornosti.

Pripravek je pri nas uspešno prestal uradne biotične poskuse za zatiranje škodljivcev na sadnem drevju in vinski trti ter je v postopku registracije.

V delu so prikazane značilnosti mikroinkapsulirane formulacije, s tem v zvezi lastnosti in uporabnost Pyrinex 25 CS ter rezultati poskusov v Sloveniji in tujini.

ABSTRACT

PYRINEX® 25 CS - microencapsulated organophosphorous insecticide, a perfect compound in integrated control of fruit trees and grapevine

The use of organo-phosphoric insecticides was strongly reduced by introduction of integrated pest management principles as many of products because of their toxicity and negative influence to useful entomological fauna had not been able to satisfy the requests valid for integrated pest management/production.

So remained only a few of organo-phosphoric insecticides which can be used, besides the products from group M.A.C. and IRI, in IPP but which is not enough for good and efficient pest control.

In our country, in fruit-growing, this problem is the strongest one at codling moth (*Cydia pomonella*) and Oriental fruit moth (*Cydia molesta*) control; in vine-growing there are no bigger problems except

on some of vineyard areas where because of several years standing use of M.A.C. and IRI products, Coccina and Cicadina pests came back and with them also virus infections.

PYRINEX 25 CS is organo-phosphoric insecticide on the basis of well-known active ingredient chlorpyrifos-ethyl but it differs from other products which have been registered on our market by being formulated in the form of microencapsulated suspension what enables the controlled progressive release of the active ingredient.

Advantages of this product: very lower toxicity (Acute oral LD50 = 40 x higher than chlorpyrifos-ethyl of EC formulation!), long lasting activity – up to 3 weeks, smaller influence to non-target microorganisms, high selectivity, broad spectrum of activity, less hazardous in transport and warehouse, less danger for the users and reduced environmental contamination, without smell, convenient for IPM programmes and programmes for resistance appearance control.

The product has finished successfully the official biotical trials for the control of pests in fruit-trees and vine plant; it is in the procedure of registration.

In the lecture, the characteristics of microencapsulated formulations, properties and use of PYRINEX 25 CS and results of trials in Slovenia and abroad are shown.