

CROP GUARD®  
As a nematicide on food crops within South Africa

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Crop Guard® (as MultiGuard Protect® in the USA) is the South African tradename for furfural EC. Crop Guard has been commercially used as a nematicide since 2001 on a wide range of food crops within South Africa. Crop Guard was awarded registration on grapes and stone fruit during Q1, 2010 and all crops of commercial interest have now been registered.

Crop Guard is labeled for use on vegetables at a rate of 25-50L/ha. On citrus, grapes and stone fruit Crop Guard is labelled at a rate of 50 l/ha and followed by two applications at 25 l/ha during the root flushes of these crops. Crop Guard's water solubility supports application via irrigation systems which supplies a strong commercial advantage for drip and micro irrigated crops.

Furfural is a contact nematicide and has shown efficacy against a wide range of parasitic nematodes. It must be moved into the root zone via irrigation to be effective. Product movement evaluations have determined the optimum irrigation rates and methodology for application. Typically irrigation rates of 10mm of water supports adequate incorporation yet this rate is dependant on soil type with heavier soils requiring a higher irrigation rate. Furfural can be used in season without plant harm or residue concerns which supports season length applications and flexibility to control nematode pressures.

Residue studies have been conducted on all food crops that have been registered and no furfural has been found above natural background levels in the food crops. The presentation will cover efficacy data on select food crops, application research, residue reviews and commercial observations.