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# BANJO FORTE A new product in the late blight market

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## **BANJO FORTE**

## A NEW PRODUCT IN THE LATE BLIGHT MARKET

### Introduction

Banjo Forte is the new potato late blight fungicide from Makhteshim-Agan. This product has been launched in 2013 and will be registered all over Europe. Because of the unique combination of two active ingredients, this is a very strong product against potato late blight.

### Banio Forte provides:

- A perfect solution against leaf- and tuber blight
- A strong side effect on white mold
- · Very good rain fastness

### **Banjo Forte conten**

Banjo Forte is a SC formulation which contains two active ingredients, fluazinam and dimethomorph. The mode of action of fluazinam is preventive and anti-sporulatina.

The mode of action of dimethomorph is effective against all different strains of phytophthora infestans. This active ingredient redistribute in the new leaves of the potato plant.

## Multi year multi site EuroBlight trials

Makhteshim Agan participated in EuroBlight trials in different European countries. The average results are represented in Figure 1. \*Based on EuroBlight trials in NL, UK, DK, 6 to 19 trials.

## Banjo Forte controls white mold

An upcoming disease in Europe is white mold, caused by Sclerotinia sclerotiorum. In 2012 in the Netherlands, a trial has been conducted by PFO (Praktilijkonderzoek Plant en Omgeving) for the Productschap Akkerbouw. Goal of this trial was to show the efficacy of different late blight fungicides towards white mold (figure 2).

## Banjo Forte - Resistance testing

In 2011 and 2012 Mokhheshim Agan did some resistance testing for Banjo Forts in Europe, In six countries P. Infestans samples have been taken and tested by Epilogic in Germany, Infected leaves from different sites were placed in humid Petri dishes and incubated to encourage sportulation. The sportagio of the single colonies were transferred for maintenance and propagation onto fresh material. Afterwards the wet leaves were placed in a dark clot late to encourage the release of zooppres.

## Results

Samples from France, Netherlands, United Kingdom, Germany, Sweden and Poland were sent to EPILOGIC to be analyzed. The highest MECSO values were calculated from a French and German sample (9,65mg/1 a.i.). The MECSO of the sensitive standard was 4.4 mg/1 a.i. There were no significant differences of MECSO found values compared to the sensitive standard. All samples showed full sensitivity against dimethomorph. Also on new found P. Infestons strains, the efficacy of Banio Forte is good. In several pot trads in the Netherlands, Banip Forte showed good control of P. Infestons strains like Green33 and Bue 13 (picture 2).

## Summary

- Banjo Forte is one of the first late blight fungicides of Makhteshim Agan.
- Unique combination of two active ingredients, contributes to:
  - Better efficacy
  - Resistance management
- Very good side effects on other potato diseases
- White mold



## Fig. 1. Multi site efficacy towards late blight, 2006-2011

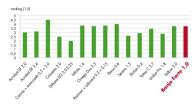
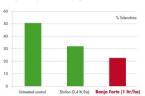


Fig. 2. Banjo Forte efficacy against white mold



## Pic. 2. Plants inoculated with Green33. Untreated control vs. Banjo Forte



