

A digital tool to facilitate identification, sourcing and application of biocontrol products

Dr Ulrich Kuhlmann, Executive Director, Global Operations

Authored by: Ulrich Kuhlmann, Steve Edgington and Emma Jenner

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Recent Plantwise study to assess the contribution of the extension service to the uptake of biological control

- Baseline study in six low-to lower-middle-income countries analysing extension material developed within the Plantwise programme and advice given by extension workers relating to the management of insect pests using microbial and macrobial biocontrol products (over a one-year time period, 1 July 2015 - 30 June 2016)
- We focussed on the following research questions, among others:
 - Do nationally registered biocontrol products make it into the extension material available to the plant doctors?
 - Where extension material does include biocontrol products, how frequently are plant doctors recommending these products to farmers?



What did we learn from this baseline study?

- Results revealed that nationally registered biocontrol products are not always included in the extension material compiled by national experts in the Plantwise programme; India and Nepal are better in this respect
- Even if biocontrol products are mentioned in the extension material used at the plant clinics, they are only sometimes (or never in Ghana and Zambia) recommended to farmers by extension workers
- Extension officers have a lack of knowledge / awareness about biocontrol products and their use



Dougoud, J., Cock, M. J., Edgington, S., & Kuhlmann, U. (2018). A baseline study using Plantwise information to assess the contribution of extension services to the uptake of augmentative biological control in selected low-to lower-middle-income countries. *BioControl*, *63*(1), 117-132.





Why is the uptake of biocontrol products rather limited in the study countries?

Knowledge

 Extension officers have a lack of knowledge / awareness about biocontrol products and their use

Registration

 Some registration pathways make the registration of biocontrol products lengthy and complicated

Availability / local production

 Agro-input suppliers in rural areas often do not have biocontrol products available; local production is rather limited although major efforts are being made in Kenya and India

Affordability

 Price of biocontrol products is sometimes high and only affordable for business-oriented farmers. One exception is India (support of local production and subsidy schemes)





How can Plantwise/CABI facilitate improved uptake of biological control products by extension and farmers?

- Create a database to facilitate the identification, sourcing and application of macrobial and microbial products for particular crop pest problems in a given country
- Develop a free to use mobile app and/or website for use on smartphones, tablets and desktop computers to put information about biological control products at the fingertips of farmers and extension workers, both within and outside of the Plantwise programme

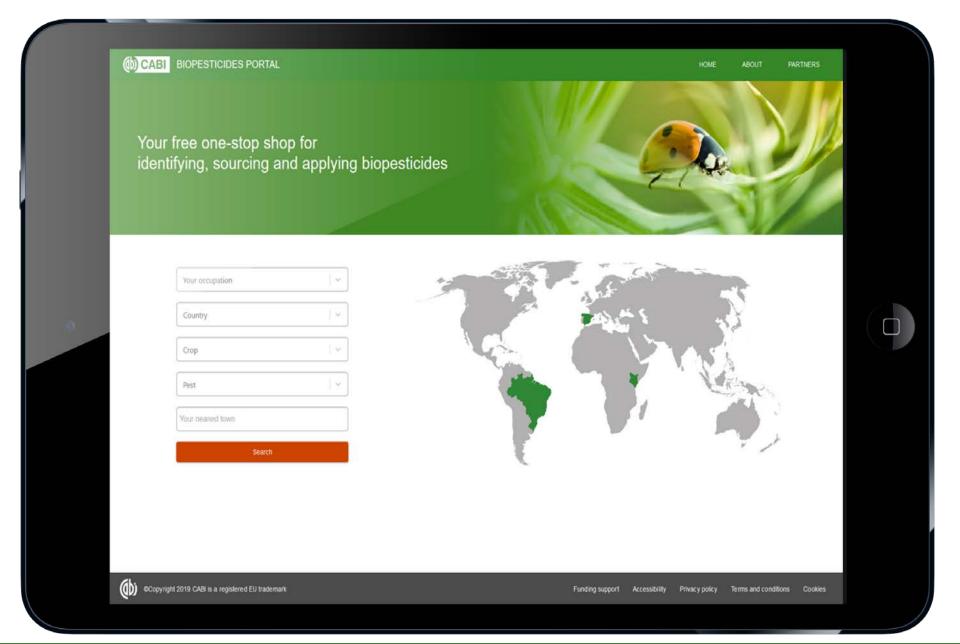




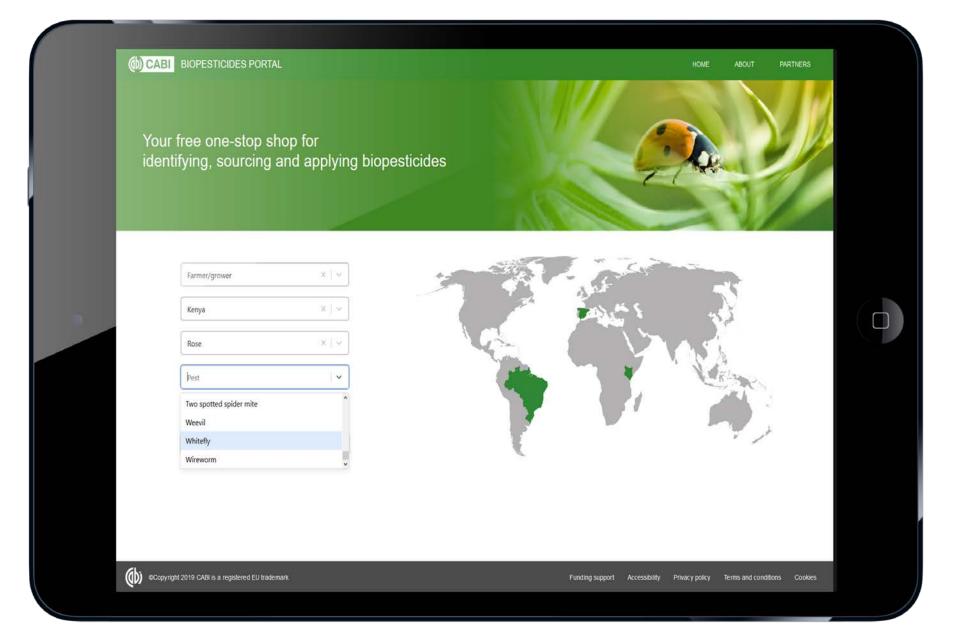
Who is it for (end-users) and what are the specific benefits?

- Farmers and advisors who need current and reliable information, on-demand, regarding the availability and correct use of effective, lower toxicity products that are registered locally and meet market/export standards
- Biocontrol manufacturers looking to promote wider uptake of their products and identify new markets
- National authorities responsible for regulation/registration of plant protection products who require information on registered products in neighbouring countries

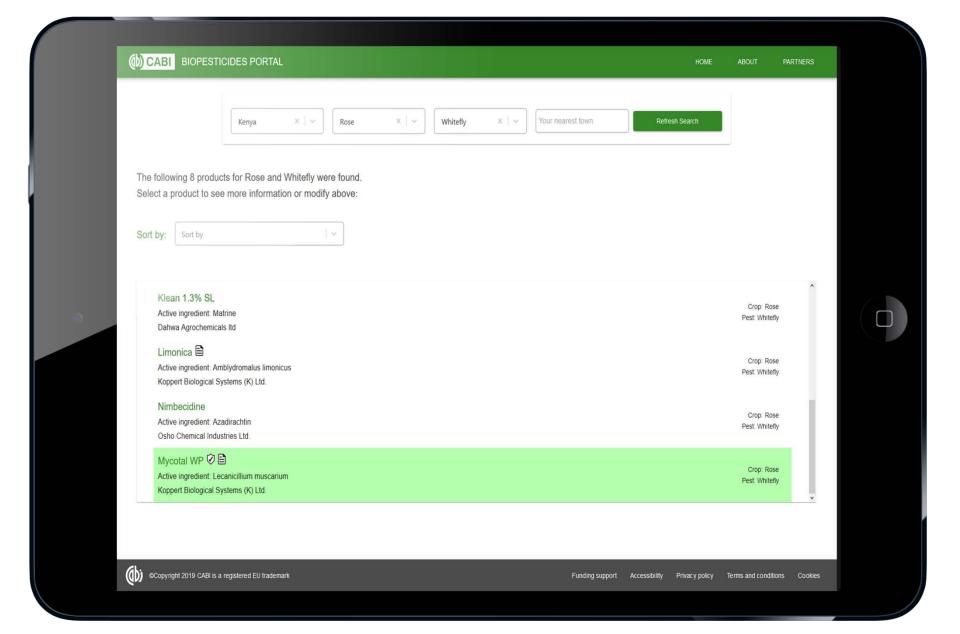




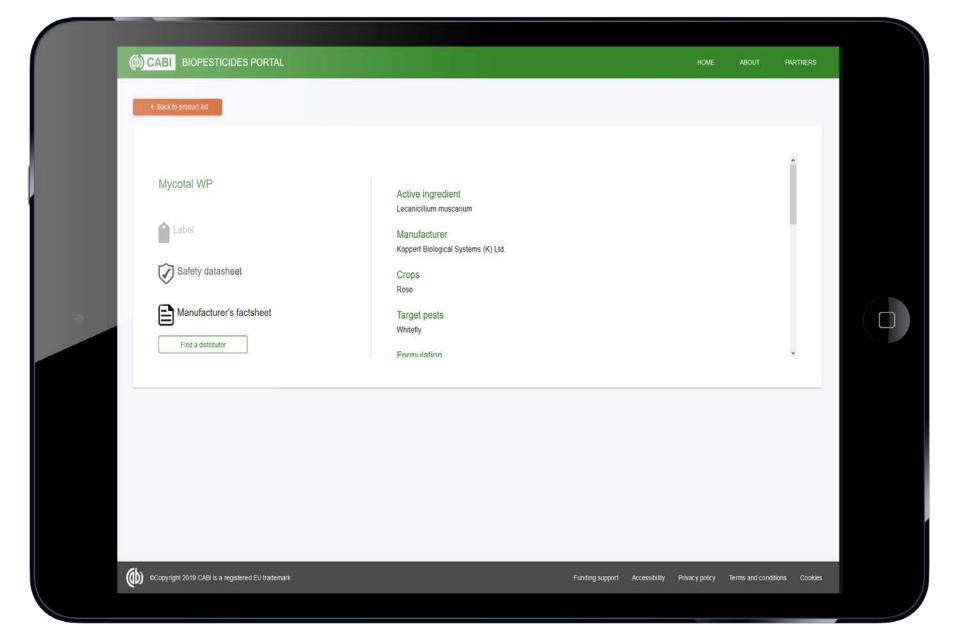




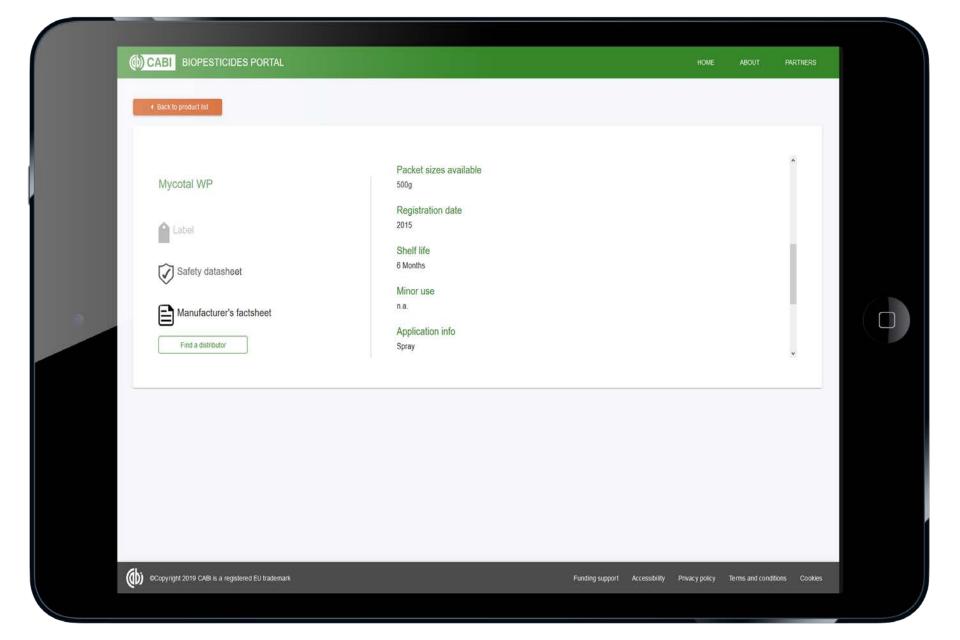




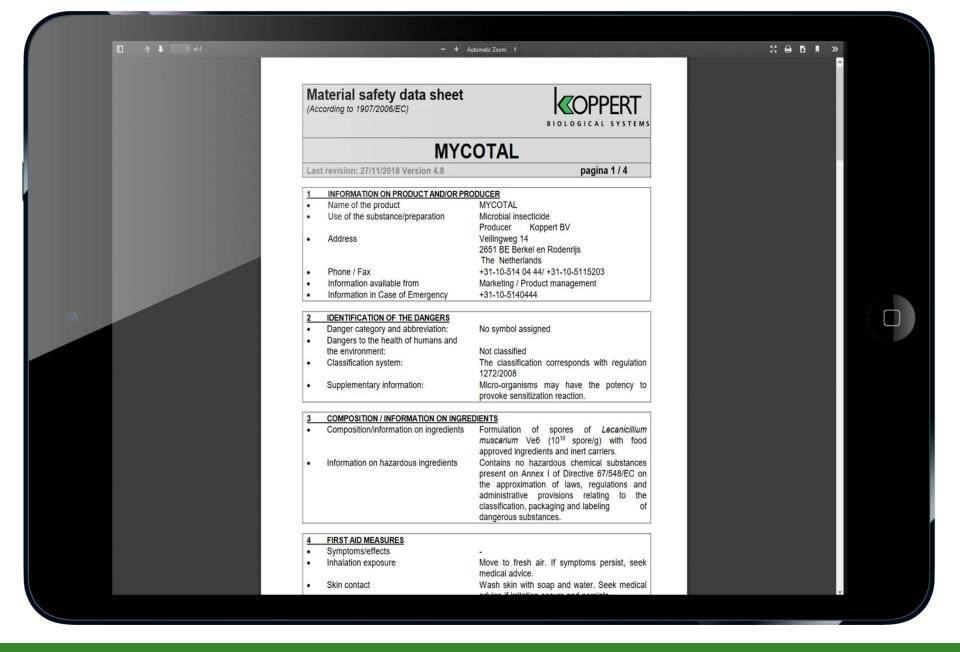
















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MYCOTAL

Lecanicillium muscarium

(formerly Lecanicillium lecanii)



Unit of packaging

Lecanicillium muscarium (entomopathogenic fungus)

Pack size: 500 gram bag in a box

Contains: 500 grams of wettable powder with 10E+10 spores/gram

Material Safety Datasheet (pdf)

Preparation of solution

- Mix the required amount of MYCOTAL with water (15-20°C/59-68°F), stir into a slurry in a bucket, use 3-4 litres water per 500 grams of MYCOTAL
- · Fill the spray tank with the required amount of water
- Empty the slurry into the spray tank and agitate well
- . Add the correct amount of ADDIT to the MYCOTAL spray solution and mix thoroughly
- · Spray immediately after preparation

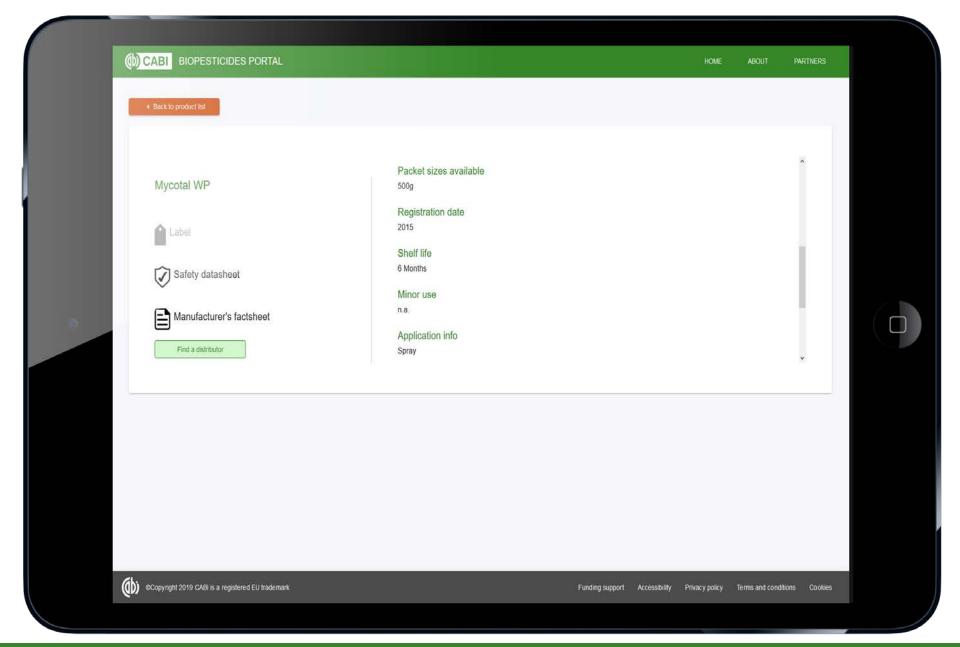
Whitefly larvae, with significant side effect on thrips larvae and spidermite.

Side effects MYCOTAL

More information?

Distribution addresses









Back to product information

116 Distributors of Koppert found

To get information on product pricing and availability, you can either locate your nearest distributor from the list below or contact Koppert Biological Systems directly at:

Koppert Biological Systems (K) Ltd.

Apex Business Park, Unit 6, Mombasa Road. P.O. Box 41852

00100 Nairobi, Kenya

+(254) 731 202191

Email: info@koppert.co.ke

Distributor name	Location	Telephone	Manufacturer contact	
Kipkelion Holdings Limited (Dairies)	Kericho (Kipkelion), Central Rift	0716855550	739426694	~
Nawal	Mumias, Western	0722555540	739426694	~
Waldai Agrovet Supplies Ltd	Kericho town, Central Rift	0786680905	739426694	~
Agri-world Enterprises	Nakuru town, Central Rift	0718976403	739426694	~
Paves Vetagro Limited	Kitale, Northrift	0720119620	739426694	~
Mwanga Agrovet	Kisumu, Awori House, Nyanza	0722862237	739426694	~
Mashambani Agovet	Eldoret Town, Northrift	0723737690	739426694	~
Baraton	Uasin Gishu, Northrift	0728448818	739426694	~
Maich Agrovet	Narok Southrift	0702286304	730438804	V
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Funding mechanisms to maintain portal

- The portal must receive funds to ensure it is developed and maintained as a free-to-use, up-todate and reliable global source of biopesticide information
- Two funding schemes are foreseen:
 - Partnership scheme partners to the portal (e.g. private sector biocontrol manufacturers) pay fixed annual partnership fees
 - Sponsorship scheme sponsors (e.g. public sector organisations and private sector agro industries) contribute towards development and maintenance
- Annual partnership fees will be built around annual turnover of companies





Next steps to launch final product

- On-the-ground user testing involving relevant stakeholders
- Final decision on the name of portal CABI Biocontrol
 Portal vs CABI Bioprotectants Portal vs CABI BioPortal
- Firming up of partnerships/sponsorships with biocontrol manufacturers and related agro industries, as well as development cooperation agencies, etc.
- Official launch planned for June 2019 with full functionality and features for Kenya, Spain and Brazil
- By December 2019, the portal will cover 20 countries, which will be selected in collaboration with partners





Contact us to find out more: Ulrich Kuhlmann, Executive Director Global Operations **u.kuhlmann.cabi.org**

CABI is an international intergovernmental organisation, and we gratefully acknowledge the core financial support from our member countries (and lead agencies) including:



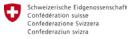
Ministry of Agriculture, People's Republic of China





Agriculture and Agri-Food Canada





Swiss Agency for Development and Cooperation SDC

