

AHDB Lettuce *Fusarium* Workshop: Soil Sterilisation Options Using Basamid

‘Start Clean, Stay Clean’

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Basamid

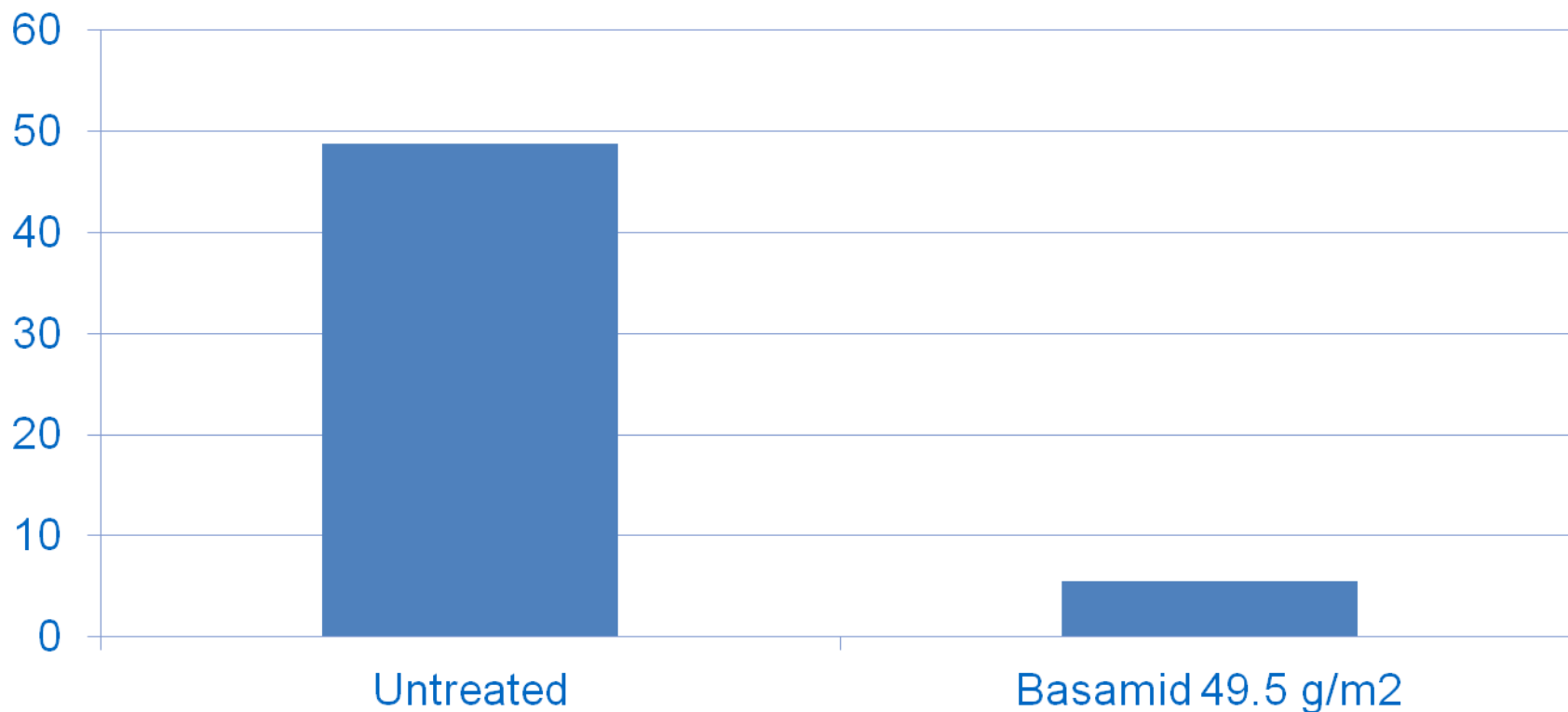
- Contains 97% w/w dazomet (Granule)
- Originally prepared by M. Delépine (*Bull. Soc. Chim. Fr., 1897, 15, 891*)
- Key activity established:
 - Herbicidal
 - Nematicidal
 - Fungicidal
- Generates MITC on contact with warm damp soil (StartClean:StayClean)

FUSARIUM ON BASIL IN PROTECTED CROP (Italy, 2012)



Fusarium Wilt Results (Reported January 2017)

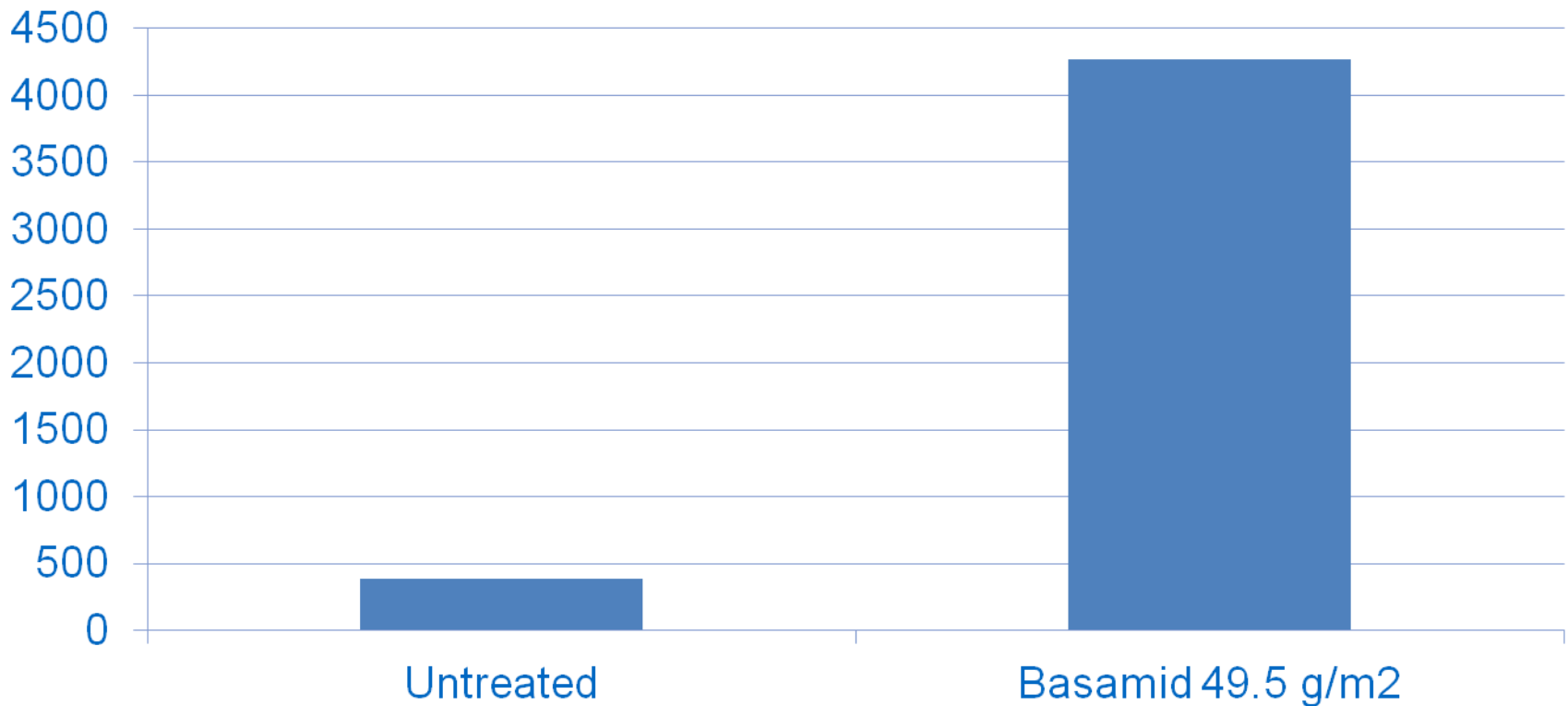
Disease Index (1-100) Average over 3 trials with 2 varieties = 6 results averaged.



Source: Gilardi, Gullino, Garibaldi. Soil disinfestation...for management of Fusarium wilt on lettuce in Italy. J Plant Dis Prot..

Yield Results (Reported January 2017)

Marketable Lettuce fresh weight g/m². Average of 3 trials/2 varieties = 6 results averaged

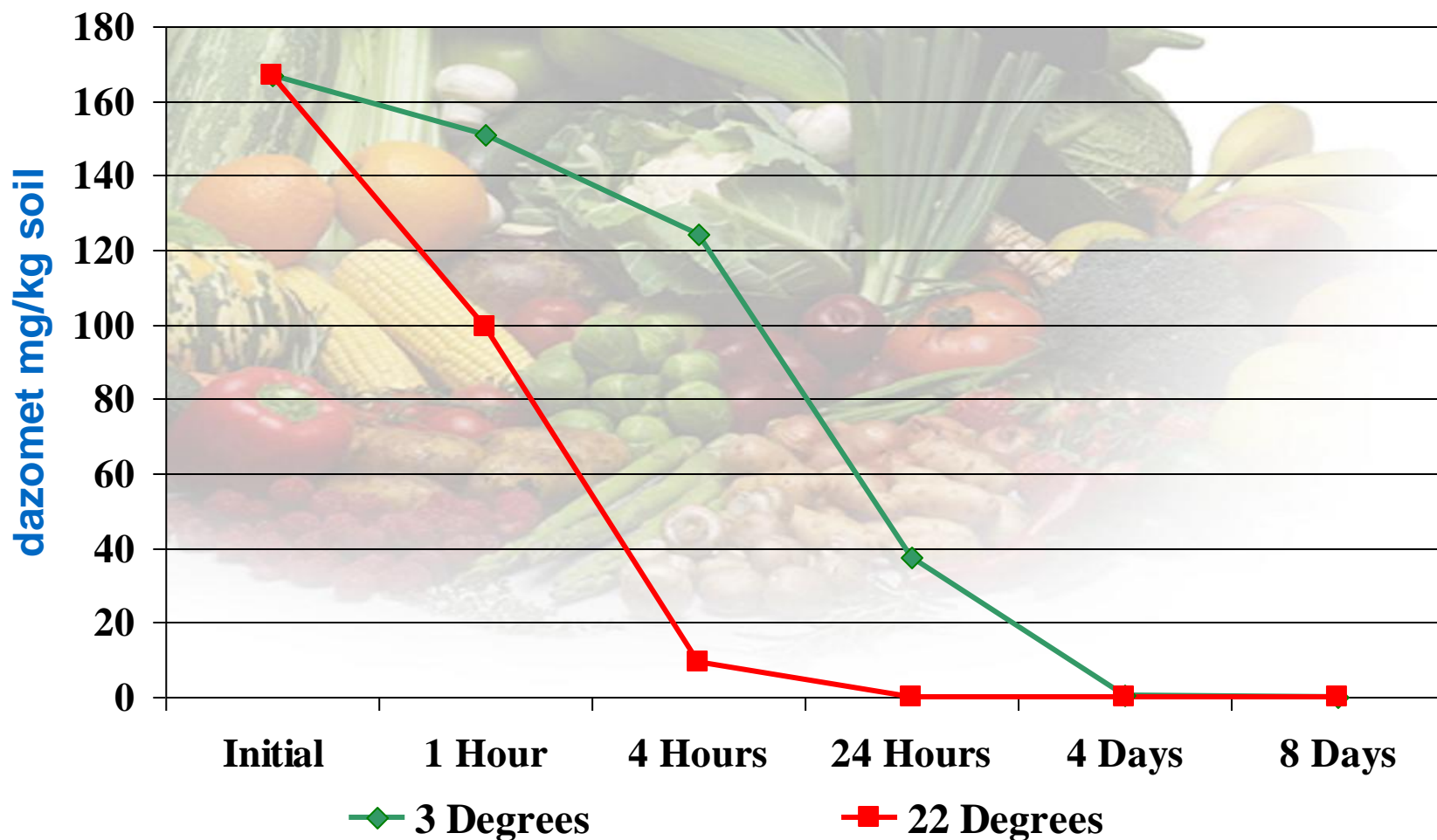


Source: Gilardi, Gullino, Garibaldi. Soil disinfestation...for management of Fusarium wilt on lettuce in Italy. J Plant Dis Prot..

Soil Moisture: Key Points

- Wet up soils 10-14 days prior to operation
 - May need 22 litres/m²
- Aim for 60-70% soil moisture
- Sand and Silts soils: 70%
- **Application to dry soils will FAIL**

Basamid breakdown in standard soil (sandy loam) at 40% of maximum water holding capacity



Soil Temperature: Key Points

- Minimum and *rising* essential for success.
 - $>7^{\circ}\text{C}$ with experienced users (8C & above)
 - 10°C at 10 cm depth (general advice to new potential users)

Equipment



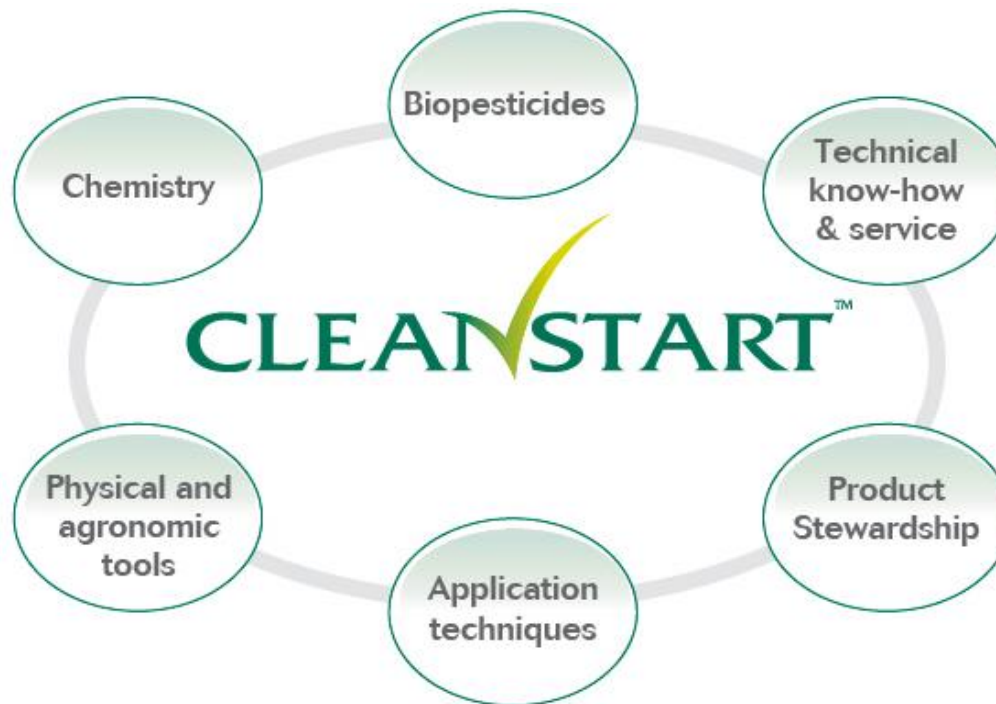
Other Key Points

- Polythene cover
 - 14 days to 30 days
- Cultivate soil/cress test
- **IPM Approach:**
 - Use 1 in 3 years (on label)
 - Avoid re-contamination of treated land
 - Disinfectant use (Jet 5)
 - Healthy seeds/plant sources

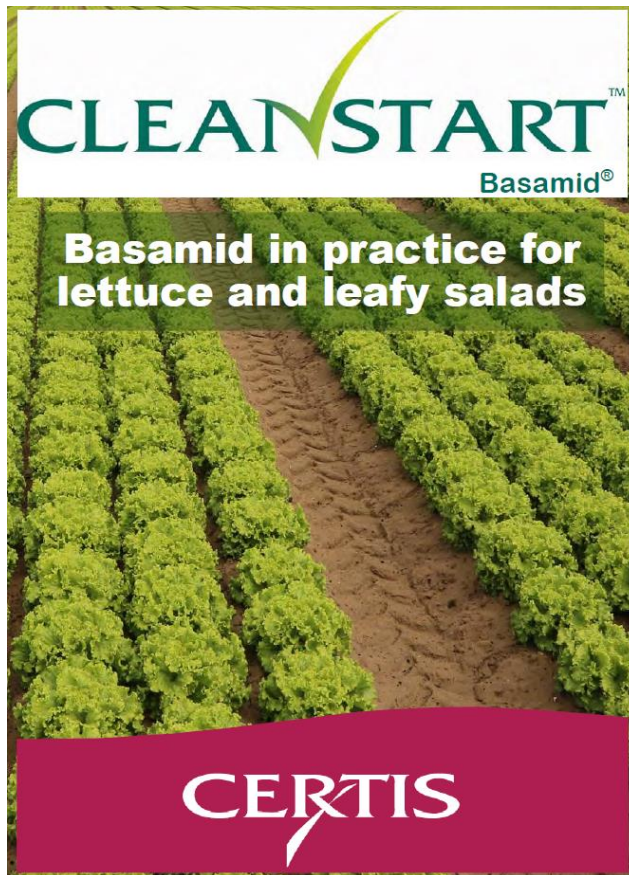
Summary

- Basamid: activity on *Fusarium* genera
- Soil temperatures: **10°C** at 10 cm depth
- Soil moisture 60 to 70%
- Polythene cover for best results

IPM – ‘Start Clean, Stay Clean’



Further technical information



BASAMID®

CERTIS

The Soil sterilant for growers

- Application by grower or by contractor
- Controls a range of soil pests, nematodes, fungi, weeds
- No soil carryover residues*
- No crop residues*
- Outdoor and protected use
- Ideal for crops with limited or no herbicide choice

Latest Update on Basamid:

- One in three year use – so need to plan ahead on a whole farm basis

Guide to Best Results with Basamid

- Plan soil moist prior to application (10 days before)
- Check soil temperature
- Plan for 1 in 3 year applications
- Polythene cover (gas impermeable thickness)
- Contractor use or grower with adequate machinery
- Use spade-type rotovators (eg Imants/Forigo)
- Use measuring units (eg Horstine Farmery dispensers)



Basamid



Untreated

* = Carry out cress test after treatment period to check for soil residues prior to crop

Formulation	Dazomet, 97%. Granular:		
Chemical class	Methyl isothiocyanate. HRAC code: Z		
Crop	All field and glasshouse crops		
Application rate	Max doses: 760 kg/ha(protected) and 670 kg/ha (outdoor)		
No. of applications	One/pre-crop	MAPP no.	11324 (PCS 90213)
Pack	5 or 20 kg	LERAP	NA
Latest timing	Pre-planting of crop		



USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.

Basamid® is a registered trademark of Kamisho Soil Treatment SPRL/RVBA. Basamid contains dazomet. Marketed by: Certis, 1 Riverside, Suite 5, Grant Park, Great Abington, Cambs, CB21 6AD. Tel: 0545 373 0305



V1 - 09/2012

http://www.certiseurope.co.uk/fileadmin/downloads_uk/products/Miscellaneous/Factsheets/Basamid_Brochure_20170830_V8_WEB.pdf

http://www.certiseurope.co.uk/fileadmin/downloads_uk/products/Miscellaneous/Factsheets/Basamid_Factsheet_0612.pdf

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Thank You

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