

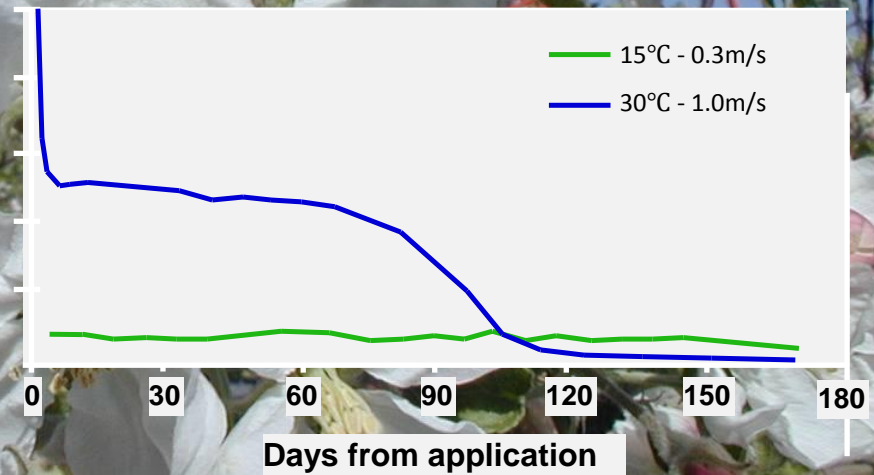
New developments in pheromone formulations

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current formulation
“zero order” release micro capillary
dispenser tube

Typical release of Shin-Etsu dispenser
(related to average temperature and wind)





Why do we have to develop a product that is worldwide recognized as the product leader and **how** to do it ???

why: in certain areas of long application history of ShinEtsu products, their efficacy is already well recognized and established... other aspects of their application are increasing of importance

how: keeping the same efficacy and reliability, answering to the new requests from the users

BIOcontrol should BIOdegrade



BIODEGRADABLE dispenser



7W0164, 7W0158
compostable



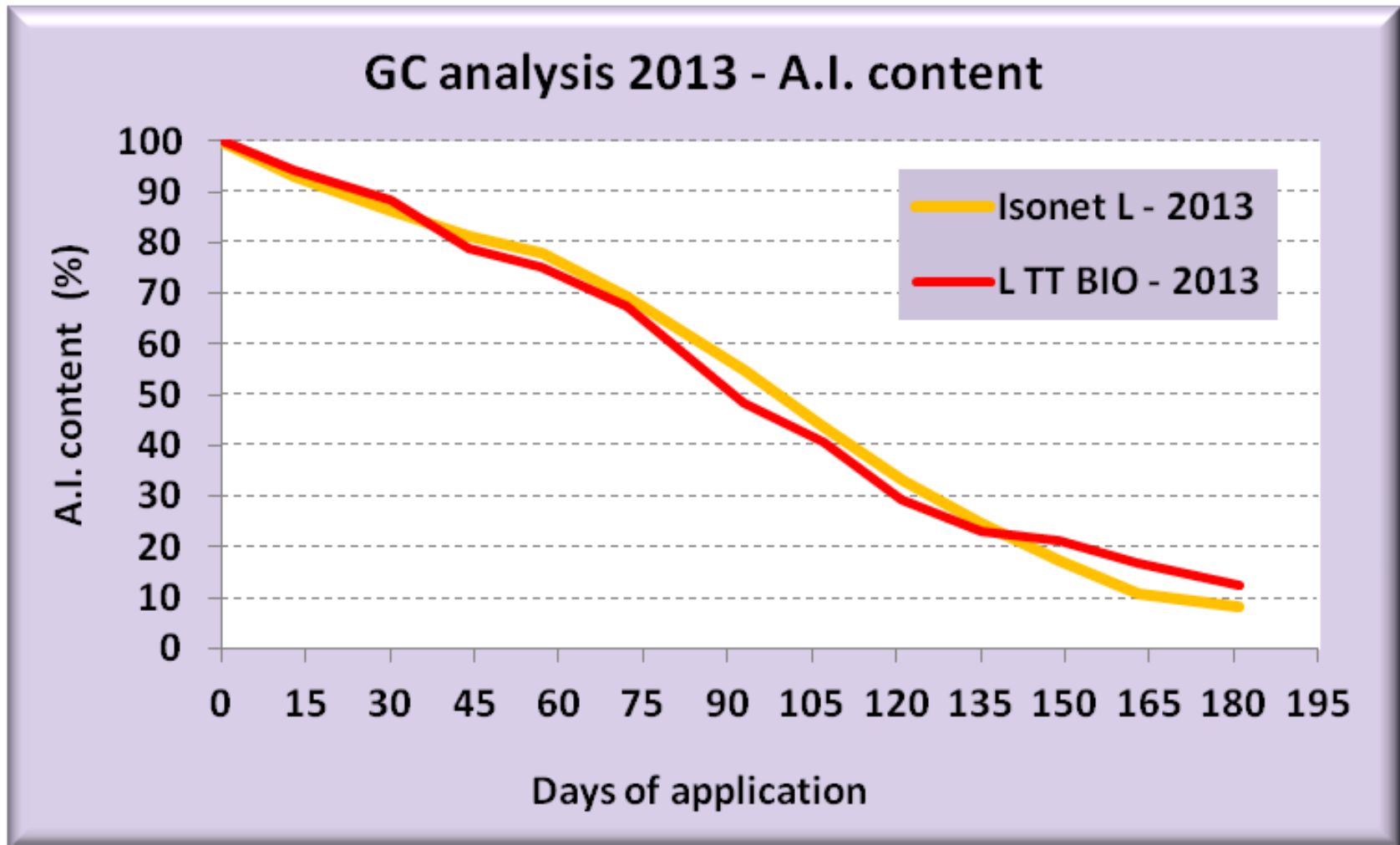
ShinEtsu biodegradable products line is made by polymer that has the versatility of common plastics **AND** becomes **biodegradable in the presence of microorganism in compost, wet soil, fresh water, seawater and activated sludge.**

This “Eco-friendly material” will decompose completely into water and carbon dioxide.

pheromone release control: GC & weighing



release control by GC





Shin-Etsu biodegradable dispensers after 7 months in the soil

problem: manpower availability

development: formulation easy & quick to be applied



Isomate[®] CM MISTER for *C. pomonella* control

**Aerosol
formulations:**

- Compact size
- Pre-programmed
- Temperature sensor
- Easy to apply



small & compact



temperature sensor

Temperature Sensor Set to 10 °C



Section 1 : Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance/preparation

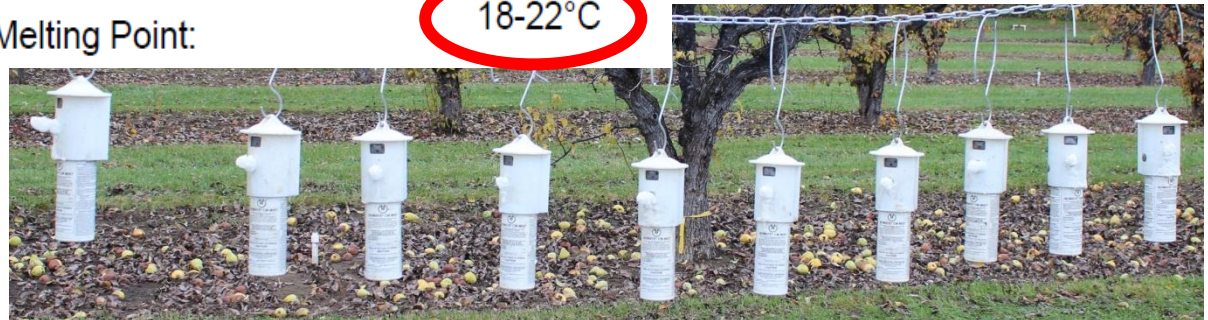
E8E10-dodecadienol

1.2 Use of substance / preparation

Codling moth (*Cydia pomonella*) pheromone technical

Melting Point:

18-22°C



***THANK YOU
FOR YOUR
ATTENTION !!***

