

# Household and Garden Products



An overview of the Agrisense Retail product portfolio delivering pest solutions

- ✓ A complete range of effective, easy to use and safe 'bio-rational' products
- ✓ Generally, no product registration required
- ✓ Product design and pack configurations to suit target costs
- ✓ Pesticide free



# Company introduction



## Providing technological expertise on a global scale

Agrisense is a major developer and manufacturer of bio-rational insect pest monitoring and control products, distributing globally through the Retail Household and Garden.

Agrisense's research and technical staff have over a century's worth of combined experience in semio-chemical research, synthesis, pest behaviour and agriculture. Our scientists enjoy a global reputation through their field work and published research.

Agrisense design, develop and manufacture bio-rational insect monitoring and control products for our customers and distribution partners worldwide.

These products for the Household and Garden market sector are based on Agrisense's three main areas of technological expertise:

- 1) Insect behaviour modifying chemicals (pheromones, attractants and repellents).
- 2) Controlled release technology for pheromones and other volatile compounds.
- 3) Insect glue technology and application.

### What we do:

- Needs driven product design and manufacture with technical support.
- Technical Data Sheets and Material Safety Data Sheets.
- Traceability – applicable products are printed with a unique code that enables date of manufacture and batch identification.
- Extensive range of traps and monitoring products.
- Insect mating disruption control products.

We require artwork for the traps, inners and outer packaging on CD or by secure ftp.

Agrisense's commercial pest control division is a certified ISO9001 Company and has extensive quality control and inspection procedures.

Customer service and product quality/effectiveness are our highest priority. Our relationships with our marketing partners are very important to us and we have dedicated customer service personnel to ensure best practice.

### Product Advantages:

- Generally no product registration is required for monitoring products, but some pheromones have been notified under the Biocides Directive (98/8/EC) and these will be supported with requisite data.
- Our products have a minimum of a 2 year shelf-life from the date of manufacture.
- Many of the products are ready-to-use (RTU) with the specific attractants either in or on the glue surface to aid ease of use.
- None of our products contain harmful chemical insecticides or pesticides.
- Proprietary controlled release technology is an integral part of our global product portfolio.
- Product designs are continually reviewed and upgraded in order to incorporate new or more cost-effective materials and technology, whilst maintaining and improving product effectiveness.

TYPE OF PEST	PRODUCT SOLUTION
Cockroach	Cockroach Trap
Kitchen Moth	Kitchen Moth Trap, Mini Kitchen Moth Trap
Clothes Moth	Clothes Moth Trap, Mini Clothes Moth Trap
House Fly	Decorative Window Fly Trap
Blue/Green Bottle Fly	Disposable Fly Bag
Vinegar/Small Fruit Fly	Fruit Fly Trap
Silverfish	Silverfish/Crawling Insect Trap
Whitefly	Mini Yellow Pot Plant Trap, Plant Label, Medium Yellow Sticky Trap
Aphids	Mini Yellow Pot Plant Trap, Plant Label, Medium Yellow Sticky Trap
Sciarids	Mini Yellow Pot Plant Trap, Plant Label, Medium Yellow Sticky Trap
Cherry Fruit Fly	Cherry Fruit Fly Trap
Codling Moth	Delta Trap (with pheromone dispenser for Codling Moth)
Plum Moth	Delta Trap (with pheromone dispenser for Plum Moth)
Pine Processionary Moth	Delta Trap, Funnel Trap (with pheromone dispenser for Pine Processionary Moth)
Chestnut Leaf Miner	Delta Trap, Funnel Trap (with pheromone dispenser for Chestnut Leaf Miner)
Winter Moth Caterpillar	Tree Bands
Wasp	Disposable Wasp Bag, Liquid Wasp Bait

The majority of Agrisense's products are exported, for which the company has received the prestigious "Queen's Award for Export Achievement" three times.





## Kitchen Moth Trap

The Kitchen Moth Trap is designed to be used in and around kitchen cupboards and is free standing when folded. The trap contains a pheromone presented in an extruded polymer lure loacted on the glue surface. Male *Ephestia/Plodia* moths are attracted by the pheromone lure, enter the trap and are caught on the non-drying glue on the inner surfaces of the trap. A patented black stripe print is also printed on the card to further increase the insect attraction.

## Mini Kitchen Moth Trap

The Mini Kitchen Moth Trap comes as a pair of traps perforated down the centre to give two small traps. There is an adhesive strip on the bottom to allow easy positioning of the trap.

### The Pest - Kitchen Moth

A group of closely related species (*Ephestia/Plodia*) which are serious pests of stored products throughout the world. Larvae eat fruit, grains, rice, pasta and leave large amounts of webbing over feeding surfaces.



### Kitchen Moth Trap

- ✓ Ready-to-use trap
- ✓ Extruded polymer lure on glue surface
- ✓ Patented black stripes to optimise insect attraction
- ✓ Lasts up to 3 months
- ✓ Shelf life of 2 years



### Mini Kitchen Moth Trap



- ✓ Ready-to-use trap
- ✓ Sticks to cupboards using an adhesive strip based on the rear of the trap
- ✓ Pheromone attractant on glue surface
- ✓ Lasts up to 3 months
- ✓ Shelf life of 2 years

## Clothes Moth Trap

The ready-to-use (RTU) Clothes Moth Trap has a triangular (delta) cross section when assembled and is made of laminated card. All three inner faces of the trap are coated with glue to maximise catch. The trap also contains a pheromone lure of liquid appearance that hardens when cooled in production to form a waxy deposit on the trap surface. The trap is designed to either be fixed to the insides of the wardrobes using the adhesive strip on the rear of the trap, hung up using the euro hook, or free standing when folded. Male clothes moths are attracted by the pheromone lure, enter the trap and are caught on the non-drying glue on the inner surfaces of the trap. Two different trap sizes can be offered.

## Mini Clothes Moth Trap

The Mini Clothes Moth Trap comes as a pair of traps perforated down the centre to give two small traps. There is an adhesive strip on the bottom to allow easy positioning of the trap.

### The Pest - Webbing Clothes Moth

*Tineolla bisselliella* is a serious pest of natural fabrics, e.g. wool, cashmere, clothes, drapes, rugs and carpets. The larvae consume the fibres causing characteristic webbing that leads to the destruction of the fabric and resulting in the loss of valuable items.



### Clothes Moth Trap

- ✓ Ready-to-use trap
- ✓ Pheromone attractant lure on the glue surface
- ✓ Patented black stripes to optimise insect attraction
- ✓ Lasts up to 3 months
- ✓ Shelf life of 2 years



### Mini Clothes Moth Trap



- ✓ Ready-to-use trap
- ✓ Can be fixed to cupboards using the adhesive strip on the rear of the trap
- ✓ Pheromone attractant on glue surface
- ✓ Lasts up to 3 months
- ✓ Shelf life of 2 years



## Cockroach Trap

Sticky traps are useful tools to detect and monitor cockroach populations and indicate the source of an infestation, as well as to assess the efficacy of a control treatment. The Cockroach Trap and attractant has been developed to monitor the three main cockroach species; *Blattella germanica*, *Blatta orientalis* and *Periplaneta americana*, but will also attract other cockroach species.

### The Pest - Cockroach

About ten species of cockroach have adapted to human environments, and thus have reached pest status. The most important are the German cockroach, *Blattella germanica*, the American cockroach, *Periplaneta americana*, and the Oriental cockroach, *Blatta orientalis*. Their eggs are laid in a very tough protective membrane called an ootheca. This egg case is extremely durable, which is one of the reasons why cockroaches are difficult pests to deal with.



### Cockroach Trap

- ✓ Ready-to-use trap
- ✓ Food based attractant manufactured under the glue surface
- ✓ Attracts cockroaches in all stages of development
- ✓ Lasts up to 3 months
- ✓ Shelf life of 2 years



## Silverfish Trap

This is a sticky trap with a triangular profile for catching silverfish, woodlice and other nuisance crawling insects. Whilst this trap contains no attractant, it serves as an extremely reliable “blunder” trap for these invertebrates.

### The Pest - Silverfish

Silverfish are placed in the order *Thysanura* which is considered one of the most primitive of the living insect orders. There are three species considered common; the common silverfish *Lepisma saccharina*, the grey or longtailed silverfish *Ctenolepisma longicaudata*, and the four-lined silverfish *Ctenolepisma lineata*.

Silverfish are particularly common in bathrooms and kitchens and can occasionally be destructive pests of fabrics and wallpapers.

### Silverfish Trap

- ✓ Ready-to-use “blunder trap”
- ✓ Water resistant
- ✓ Lasts up to 3 months
- ✓ Shelf life of 3 years





## Decorative Window Fly Trap

Flies are naturally attracted by light and contrasting colours. With its specially designed flower and non-drying fly glue, the Window Fly Trap catches flies buzzing around windows. The sticker should ideally be placed at the lower edges of windows in inconspicuous locations, such as behind curtains.

### The Pest - House Fly

*Musca domestica* (house flies) are an ubiquitous problem around the home, carrying filth as well as important disease causing organisms. The life cycle varies between species and climatic locations. However, in warmer areas flies are a problem all year round, whilst in cooler climates flies are most prevalent during the warmer summer months.



### Decorative Window Fly Trap

- ✓ Ready-to-use glue trap
- ✓ Attractive flower design
- ✓ Easily removed from the window
- ✓ Lasts up to 3 months
- ✓ Shelf life of 3 years



## Fruit Fly Trap

This small, plastic, lemon design trap combines colour and food attractants to effectively attract and trap nuisance fruit flies in sensitive areas of the home. The trap can be conveniently hung near to or placed inside a fruit bowl.

### The Pest - Vinegar/Small Fruit Fly

*Drosophila* flies (vinegar or small fruit flies) occasionally become a pest in homes, restaurants, fruit markets or similar places containing food sources. Due to their small size, it is practically impossible to exclude them from buildings.

### Fruit Fly Trap

- ✓ Ready-to-use trap
- ✓ Attractive lemon-shaped design
- ✓ Lasts up to 3 months



## Mini Yellow Pot Plant Trap and Plant Label

Research has shown that a number of important pest insects are attracted to a range of specific colour wavelengths. These colours present stimuli to the insect which may elicit a number of responses ranging from host plant recognition to ovipositional attractant and sexual stimuli. For a wide range of whitefly, aphids and sciarids, a specific tone of yellow has been found to be a powerful attractant. The Mini Yellow Pot Plant Trap has been designed to take advantage of this behaviour. The specific wavelength emitted from the trap is covered with a high-tech, non-drying adhesive. The attracted insects land on the trap and are stuck fast. The Plant Label has glue on one side. The reverse side allows the name of the seed/plant to be recorded using a marker pen.

### The Pest - Whitefly, Aphids, Sciarids

Whitefly and aphids are important pests of greenhouse, garden and house plants. They suck the sap from leaves and stems, often transmitting plant viruses in the process. Their honeydew secretions can also lead to sooty mould growth on leaves.

Sciarids or fungus gnats are primarily nuisance insects, although in high infestations larval feeding on roots can stunt plant growth.



### Mini Yellow Pot Plant Trap

- ✓ Designed for house, conservatory and greenhouse pot plants
- ✓ Effective dry-touch, no mess glue on both sides
- ✓ Various shapes available
- ✓ Lasts up to 3 months
- ✓ Shelf life of 3 years



### Plant Label

- ✓ Can be used inside and outside
- ✓ Dual purpose: insect monitoring trap and record label
- ✓ Effective dry-touch, no mess glue on one side
- ✓ Lasts up to 3 months
- ✓ Shelf life of 3 years





## Codling Moth and Plum Moth Trap

The Codling Moth and Plum Moth Traps have a triangular (delta) cross section and are manufactured from folded plastic. The insects are attracted by the manufactured pheromone lures designed specifically for codling moth (*Laspeyresia (Cydia) pomonella*) or for plum moth (*Grapholitha (Cydia) funebrana*). The insects enter the trap and are caught on the non-drying glue inside the trap. The glue insert can later be removed for inspection and replacement.

### The Pest - Codling Moth

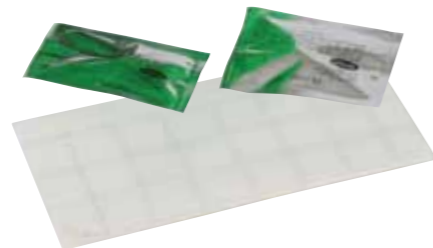
*Laspeyresia (Cydia) pomonella* is probably the most important pest of apples worldwide and also an important pest of pears, quinces and walnuts. Larvae bore into fruits carving galleries inside and causing the premature drop of young fruitlets. Adult moths are seldom seen because they are active mostly at dusk, resting in the foliage during the day.

### The Pest - Plum Moth

*Grapholitha (Cydia) funebrana* is a major pest of plums and prunes throughout Europe. The larvae bore into the fruits causing premature fruit drop or rendering fruit unmarketable. Larvae bore into fruits carving galleries inside. Adult moths are seldom seen because they are active mostly at dusk, resting in the foliage during the day.

### Delta Trap

- ✓ Protects up to 5 trees for a complete season
- ✓ Strong rigid corrugated trap with wire hanger
- ✓ 2 x 6 week duration pheromone dispenser
- ✓ 2 x glue boards
- ✓ Shelf life of 2 years



## Chestnut Leaf Miner and Pine Processionary Moth Traps

These pests can be caught using a specific pheromone and our reusable Delta Trap. The insects are attracted by the manufactured pheromone lure, enter the trap and are caught on the non-drying glue inside the trap. The glue insert can later be removed for inspection and replacement. For larger infestations, Funnel Traps are available.

### The Pest - Chestnut Leaf Miner

Larvae of *Cameraria ohridella* mine within the leaves of horse chestnut trees, and the damage caused by large numbers of larvae can be striking. Up to 700 leaf miners have been recorded on a single leaf under favourable conditions. Severely damaged leaves shrivel and turn brown by late summer and fall early, well before normal leaf fall in the autumn. The spread and establishment of *Cameraria ohridella* is of particular concern because, once established, the moth appears always to maintain exceptionally high rates of infestation without any evidence of decline.

### The Pest - Pine Processionary Moth

*Thaumetopoea pityocampa* (Family: *Notodontidae*) is an important defoliator of pine trees throughout the Mediterranean region. Larvae eat the pine needles, building a collective web nest under which they shelter and feed.

### Delta Trap

- ✓ Protects up to 2 trees
- ✓ Strong rigid corrugated trap with wire hanger
- ✓ 6 week duration pheromone dispenser
- ✓ Shelf life of 2 years

### Funnel Trap

- ✓ Black stripe technology to increase catch
- ✓ Permanent, long term monitoring
- ✓ 6 or 12 week duration pheromone dispenser
- ✓ Large infestations





## Tree Bands

The Tree Bands operate by stopping larvae from moving up or down the tree trunk. Cut enough of the strip to wrap around the tree trunk once, with a 10cm overlap. Wrap the band tightly around the tree and, at the point of overlap, expose the lower band by peeling back the top band and sticking down the free end, ensuring a tight fit. If there are problems achieving a good fit, string can be used at the top and bottom of the band to secure it. Fix the band well above the level of any surrounding vegetation to ensure that the band isn't bridged, allowing insects to avoid the trap. Use the band around any supporting tree posts.

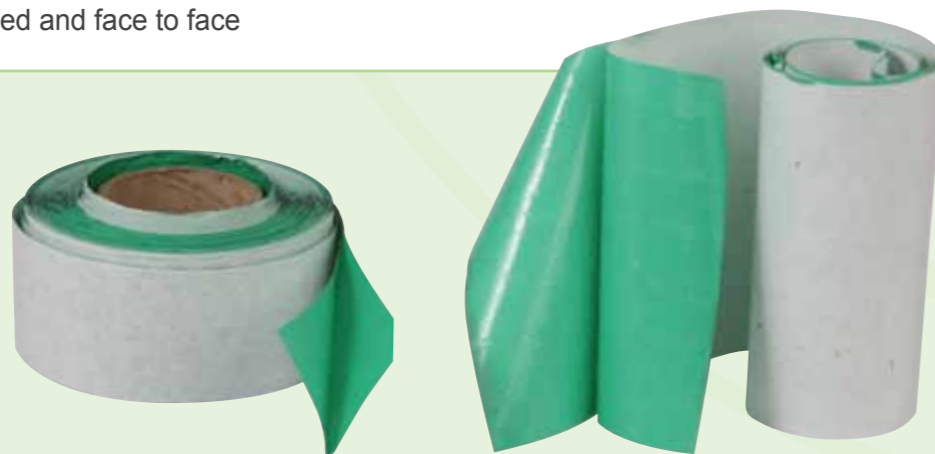
### The Pest - Winter Moth Caterpillar

*Operophtera brumata* emerges in spring to feed on foliage, flowers and young fruit. The wingless female moths climb trees in October, November and December and again in March to lay their eggs.



### Tree Band

- ✓ Effective protection against the winter moth caterpillar
- ✓ Non-drying glue
- ✓ Two band types, folded and face to face



## Disposable Wasp Bag Kit and Liquid Wasp Bait

The Disposable Wasp Bag has entry vents underneath the yellow lid which allow the wasps to enter the trap. The wasps are attracted by the specially formulated liquid attractant inside the bag. Hang the trap vertically by the twist tie attached to the lid in a suitable outdoor position, preferably in the sun and in secluded areas where wasps can be drawn away from nuisance areas.

### The Pest - Wasp

The common wasp (*Vespula spp.*) is ubiquitous throughout Europe as well as North America and now Australia and New Zealand. Throughout the spring, wasps prey on other insects and feed mainly on protein sources. At this time of the year they are rarely a pest and are not often noticed. When the summer is hot and dry, and at the onset of cooler months, the wasps' attentions move to energy foods to maintain their activity. At this time they are highly attracted to sugary foods and drinks which bring them into contact with people.

### Disposable Wasp Bag Kit

- ✓ Kit includes 100ml concentrate of food based liquid attractant, sufficient for filling one Wasp Bag when topped up with water
- ✓ Repellent to beneficial insects, so safe for bees
- ✓ Disposable trap
- ✓ Safe and easy to use

### Liquid Wasp Bait

- ✓ 500 ml bottle of ready-to-use food based liquid attractant, sufficient for filling one Wasp Bag
- ✓ Repellent to beneficial insects, so safe for bees
- ✓ Safe and easy to use





blue bottle fly



cherry fruit fly



whitefly



aphids

## Disposable Fly Bag

The Disposable Fly Bag has entry vents underneath the green lid which allow the flies to enter the trap. The flies are attracted by the specially formulated liquid attractant released from a water-soluble sachet inside the bag. Hang the trap vertically by the twist tie attached to the lid in a suitable outdoor position, preferably in the sun and in secluded areas where the flies can be drawn away from nuisance areas.

### The Pest - Blue/Green Bottle Fly

Blue and green bottle flies, from the family *Calliphoridae*, as well as the lesser house fly, are a pest of farms, stables, bin areas, or similar outdoor places where decaying matter and waste may be found. More than just a nuisance, these unsanitary pests are carriers of diseases.

### Disposable Fly Bag

- ✓ Contains water-soluble sachet of food based liquid attractant - just add water
- ✓ Effective for nuisance flies including blue and green bottles and blowflies (*Lucila spp.*)
- ✓ Safe and easy to use



## Cherry Fruit Fly Trap

The Cherry Fruit Fly Trap is made of flat yellow plastic and coated both sides with our non-drip, non-drying glue. The specific yellow colour is known to be attractive to the cherry fruit fly. The attracted insects land on the trap and are stuck fast. The trap is used in conjunction with the cherry fruit fly food attractant lures as a simple and effective tool for insect monitoring.

### The Pest - Cherry Fruit Fly

*Rhagoletis cerasi* is a very important pest of cherries in much of Europe and Western Asia. The adult lays its eggs on maturing fruit. The maggot enters and feeds, causing surface browning of the fruit before emerging to pupate in the soil.



### Cherry Fruit Fly Trap

- ✓ Protects a tree for the entire season
- ✓ Scientifically designed traps coated both sides with our dry-touch glue
- ✓ Long life duration food attractant (6 months)
- ✓ Shelf life of 2 years



## Medium Yellow Sticky Trap

Research has shown that a number of important pest insects are attracted to a range of specific colour wavelengths. These colours present stimuli to the insect which may elicit a number of responses ranging from host plant recognition to ovipositional attractant, sexual stimuli. For a wide range of whitefly, aphids and sciarids, a specific tone of yellow has been found to be a powerful attractant. The Medium Yellow Sticky Trap has been designed to take advantage of this behaviour. The specific coloured plastic of the trap is covered with a high-tech, non-drying adhesive.

### The Pest - Whitefly, Aphid, Sciarid

Whitefly and aphids are important pests of greenhouse, garden and house plants. They suck the sap from leaves and stems, often transmitting plant viruses in the process. Their honeydew secretions can also lead to sooty mould growth on leaves.

Sciarids or fungus gnats are primarily nuisance insects, although in high infestations larval feeding on roots can stunt plant growth.



### Medium Yellow Sticky Trap

- ✓ Water resistant
- ✓ Coated both sides with our dry-touch glue
- ✓ For use in greenhouses and conservatories
- ✓ Shelf life of 3 years





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