



International

# Pyrethrum 5EC

Plant protection against a range of flying and crawling insects

Contains:

5% w/v pyrethrins

25% w/v piperonyl butoxide

## Packaging

250ml and 1 litre bottles and 5 litre flagon

**Pyrethrum 5EC is a special water based formulation that optimises the insect killing power of natural pyrethrum synergised with piperonyl butoxide to inhibit the resistance mechanism.**

Pyrethrum 5EW is very crop safe and can be used on a wide range of edible and non-edible plants including vegetables, fruit, coffee, cocoa, broad acre crops such as wheat and maize and ornamental plants throughout the season. It is a contact insecticide that protects crops against chewing and sucking pests including aphids (blackfly and greenfly), caterpillars, whitefly and red spider mite.

Pyrethrum is a natural substance purified from chrysanthemum flowers. Chrysanthemum flowers have been available in Europe for over 150 years and in their powdered form were used as louse and flea powders. It is only in the last 50 years that liquid concentrates for public health pest control have appeared, and only in the last 10 years that they have been available for use in horticulture with the launch of Pyrethrum 5EW.

### Pyrethrum and Resistance

Natural pyrethrum has not been notified as an insecticide with a high risk of insect resistance. The reason for this is that pyrethrum is a mixture of active ingredients, pyrethrins I and II (harder to develop resistance to).



### Why should you use Pyrethrum 5EC?

- Pyrethrum 5EC is approved for use against a wide range of pests including SWD, greenfly, whitefly, blackfly, thrips, flea beetle, aphids and caterpillars.
- For use on all soft fruit, top fruit, vegetable crops, salad crops and ornamentals.
- No limit on the number of applications in the growing season. Pyrethrum 5EC can be applied throughout the season at seven day intervals.
- Zero Active ingredient residue profile, crops can be harvested 24 hours after application.
- Can be used in both indoor and outdoor growing systems.
- Suitable for use with a wide range of spray volumes.

# Technical Information

Subject to rigorous quality control, Pyrethrum 5EC is formulated as a 5% w/v of pyrethrins. The active ingredient causes rapid knockdown of insects followed shortly by death. The mode of action is non-systemic and contact action caused by the binding of pyrethrins to sodium channels inhibits the insect's nervous system. This mode of action leads to a broad-spectrum of insecticidal activity. Pyrethrum is non-persistent in the environment which allows just a 24 hour withdrawal period prior to harvest and retreatment of crops at seven day intervals.

## Insects controlled

Pyrethrum 5EC is approved for use against a wide range of pests including SWD, greenfly, whitefly, blackfly, thrips, flea beetle, aphids and caterpillars.

## Application

Compression sprayer.

## Areas of Use

For use on all soft fruit, top fruit, vegetable crops, salad crops and ornamentals.

## Directions for use

Pyrethrum 5EC should be used at a concentration of 0.02% (20ml product in 5 litres of water) and applied at a rate of 275 litres per hectare for outdoor crops, and max 600 litres per hectare for crops grown under cover.

Mixing: Shake well and dilute with water before use. Mix thoroughly and use immediately.

Water volume: It is essential to achieve good spray coverage of the target crop foliage for optimum pest control. Apply in a high volume spray to ensure thorough coverage of the foliage to the point of run-off. Ensure that both upper and lower surfaces of the leaves are treated.

Timing of application: Apply Pyrethrum 5EC as soon as pest or pest damage is seen and when motile stages of pests are most active. Do not apply in direct sunshine or in very hot weather when it is advisable to apply in early morning or in the evening.

## Rate of application

Treatment site	Product	Water	Application rate
Outdoor crops routine treatment:	20ml	5 litres	275 litres per hectare
Indoor crops routine treatment:	20ml	5 litres	600 litres per hectare

Drift: Avoid drift off the target areas. Avoid spraying within 6m of the field boundary to reduce effects on non-target insects and other arthropods. Pyrethrum 5EC must be stored in a suitable pesticide store in a dark place.

Cleaning: Wash equipment thoroughly immediately after use. Fill the tank with clean water plus some wetting agent or detergent and flush out. Refill with water and spray out before storage or using other products. Traces of Pyrethrum 5EC may cause damage to susceptible crops sprayed later.

Crop Safety: Some species of plant may be sensitive to Pyrethrum 5EC and show signs of yellowing, particularly after a second application. Do not apply to open blooms and test spray on a small number of representative plants before spraying larger batches. Certain types of bedding plants may suffer some damage to any flowers present at the time of spraying. Subsequent new growth is unaffected.

## ALWAYS READ THE LABEL

### Storage & Disposal

Store away from direct sunlight.  
Avoid release to the environment.  
Dispose of the contents and container in accordance with local regulations.

## Handling

Wear protective gloves/protective clothing/eye protection/face protection.  
Wash thoroughly after handling.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.  
IF ON SKIN: Get medical advice/attention if you feel unwell.

## Precautions

Harmful if swallowed.  
Harmful if inhaled.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
Very toxic to aquatic life with long lasting effects.

## WARNING

