

# INSECTICIDE

## CH<sup>®</sup>ESS WG

Contains 50% w/w pymetrozine formulated as a water dispersible granule.

Controls *Aphis gossypii* in cucumbers and ornamental plants.

Product registration number: **MAPP 17580**

**(PCS No 03365)**

Unique chemistry and mode of action.

Prevents aphids feeding in minutes, they then die from starvation.

Activity observed on a range of other sucking insects.

Excellent crop safety.

Safe to most beneficial insects.



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

# CH<sup>®</sup>ESS WG

- Controls organophosphorus and carbamate susceptible and resistant strains of aphids including the melon cotton aphid (*Aphis gossypii*).
- Approved for use on all varieties of cucumber grown under protected cultivation.
- Approved on a range of protected and field grown ornamentals.
- Unique mode of action means that it is an ideal product for use in IPM programmes.
- Short harvest interval of 3 days for some crops.

The following text is taken from the approved product label:

## DIRECTIONS FOR USE

**IMPORTANT:** This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

### PESTS CONTROLLED

CH<sup>®</sup>ESS WG contains 50% w/w pymetrozine formulated as a water dispersible granule. It controls organophosphorus and carbamate susceptible and resistant strains of aphids on cucumbers and named species of ornamental plants.

Pymetrozine is an insecticide derived from a novel type of chemistry which is highly selective against plant sucking insects. It penetrates green leaves and quickly prevents aphid feeding. There is no immediate knockdown effect, but aphids do not feed again, and death occurs through starvation within one to four days.

CH<sup>®</sup>ESS WG controls melon-cotton aphid (*Aphis gossypii*) on cucumbers and ornamental plants.

### USE IN INTEGRATED PEST MANAGEMENT PROGRAMMES:

Limited data indicate CH<sup>®</sup>ESS WG has some margin of safety on *Phytoseiulus persimilis*, *Amblyseius fallacis* and *Typhlodromus pyri*, and to *Encarsia formosa* present in black parasitised whitefly scales. For the latest information consult your specialist advisor.

### RESISTANCE MANAGEMENT:

To prevent the development of resistance, CH<sup>®</sup>ESS WG (containing pymetrozine) should not be used continuously in sequence or as the sole method of control. A maximum of two treatments should be made in sequence. Alternate with products from different chemical groups with a different mode of action, and consider the use in IPM programmes.

## CROP SPECIFIC INFORMATION

### ORNAMENTAL PLANTS (PROTECTED CULTIVATION AND FIELD-GROWN CROPS)

CH<sup>®</sup>ESS WG has been used safely at the recommended dose on all species listed below without crop damage. However, because of the large number of species and varieties in use and the variation in growing conditions, the varietal susceptibility should always be checked by treating a small number of plants in the first instance.

Anemone	Begonia
Chrysanthemum	Cyclamen
Dieffenbachia	Fatshedera
Ficus	Gerbera
Lilium	Lisianthus
Roses	

CHESS WG may leave visible spray deposits on the leaves of some ornamentals.

**Timing:**

Apply as soon as aphids or damage are seen in the crop. Repeat as necessary with a minimum spray interval of one week.

Avoid spraying within 6 metres of field boundaries to reduce effects on non-target insects or arthropods.

**Dose:**

**20 g CHESS WG per 100 litre water.**

A maximum of 4 applications of CHESS WG may be made to each crop.

**Spray Volume:**

Spray to run-off using any suitable hydraulic sprayer and a medium or medium/ fine spray quality in a water volume of 200-2000 litres per hectare. Good spray cover is required for optimal control of aphids.

## CUCUMBER

CHESS WG is approved for use on all varieties of cucumber grown under protected cultivation.

**Timing:**

Apply as soon as aphids or damage are seen in the crop. Repeat as necessary with a minimum spray interval of one week.

**Dose:**

**20 g CHESS WG per 100 litres of water.**

A maximum of 3 applications of CHESS WG may be made to each crop.

**Spray Volume:**

Spray to run-off using any suitable hydraulic sprayer and a medium or medium / fine spray quality and a water volume of 200-2000 litres per hectare. Good spray cover is required for optimal control of aphids.

**Harvest Interval:**

Do not harvest crops for at least 3 days after application of CHESS WG.

### MIXING AND SPRAYING (ALL CROPS)

Make sure the sprayer is set to give an even application at the correct volume.

In all cases add CHESS WG to the spray tank first, followed by any additional products.

Dry Mixing - Sprayers with Induction Hoppers:

Fill sprayer to 15% of tank capacity with water and start agitation. Pour CHESS WG into the induction hopper and open valve in bottom of hopper to suck the granules into the circulating spray mix. Continue adding CHESS WG until loading is complete. Wash down any granules on the hopper wall and close valve.

Note for old sprayers with indirect venturi induction hoppers

In the unlikely event of problems occurring during dry induction of the granules (blocked venturi), open the rinse ring and add water to the hopper. As soon as product induction continues, carry on adding product until the required amount is reached.

Sprayers Without Induction Hoppers:

Fill sprayer with a minimum of 15 cm of water in the bottom and agitate vigorously. Pour CHESS WG through the sprayer lid and then add the remainder of water. Agitate the mixture thoroughly before use and continue agitation until spraying is complete.

Thoroughly wash all spray equipment with water after use.

## SAFETY PRECAUTIONS

### (a) Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate and contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH HANDS before meals and after work.

### (b) Environmental Protection

Do not contaminate water with product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from yards and roads.

HIGH RISK TO BEES (Outdoor use only). DO NOT apply to crops in flower or to those in which bees are actively foraging. Do not apply when flowering weeds are present.

RISK TO CERTAIN NON-TARGET insects or arthropods. See 'Directions for Use' and the section on 'Use in Integrated Pest Management Programmes'.

### (c) Storage and Disposal

EMPTY CONTAINER COMPLETELY and dispose of safely.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

### IMPORTANT INFORMATION

FOR USE ONLY AS A HORTICULTURAL INSECTICIDE

	<u>Maximum Individual Dose (kg product/ha)</u>	<u>Maximum Number of Treatments</u>	<u>Latest timing of application</u>
Protected cucumbers	0.4	3 per crop	3 days before harvest
Ornamental plant production	0.4	4 per crop	-

#### Other Specific Restrictions:

The maximum concentration must not exceed 20g product per 100 litres water. A minimum interval of 7 days must be observed between applications to outdoor ornamentals.

**READ THE LABEL BEFORE USE. USING THE PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work (UK only).

## **CHES WG**

A water dispersible granule containing 50% w/w pymetrozine.



### **FOR PROFESSIONAL USE ONLY**

#### **Warning**

**Suspected of causing cancer.**

**Very toxic to aquatic life with long lasting effects.**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

If exposed or concerned; get medical advice/ attention.

Collect spillage.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple-rinsed empty clean containers which can be disposed of as non-hazardous waste.

**To avoid risks to human health and the environment comply with the instructions for use.**

**MAPP 17580 PCS 03365**

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'extensions of use' approval or is otherwise permitted under the Plant Protection Product Regulations. The information on the label is based on the best available information including data from test results.

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#### **Approval holder:**

Syngenta UK Limited CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE  
Tel: Cambridge (01223) 883400.

In case of toxic or transport emergency with CHES WG ring 01484 538444 any time.

**Pack Size:** 250 g **Outer of:** 20 x 250 g

Safety data sheet available on request.

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