

INSECTICIDE

PRODUCT GUIDE



 **Actara**<sup>TM</sup>

Rapid action, long lasting effect

MAPP: 13728

**syngenta**<sup>®</sup>

[www.syngenta-crop.co.uk](http://www.syngenta-crop.co.uk)

## PRODUCT OVERVIEW

ACTARA contains 250 g/kg thiamethoxam formulated as a water dispersible granule. It controls a range of aphids that commonly attack seed and ware potatoes including strains of *Myzus persicae* resistant to organophosphate, carbamate and pyrethroid insecticides.

Thiamethoxam belongs to the neonicotinoid class of chemicals. It shows excellent activity against aphids that attack potatoes. It has contact, stomach and systemic properties. Thiamethoxam provides rapid knock down of aphids and through its systemic activity long lasting (typically 2 – 3 weeks) efficacy against re-invasion of aphids.

**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.

## BEST USE GUIDANCE

ACTARA is recommended for use in ware and seed potatoes.

## PESTS CONTROLLED

ACTARA will reduce the transmission of potato viruses (e.g. potato leaf roll virus and potato virus Y) by the control of the aphid vectors which spread them. The aphids controlled include: peach-potato aphid (*Myzus persicae*), potato aphid (*Macrosiphum euphorbiae*), glasshouse and potato aphid (*Aulacorthum solani*) and buckthorn-potato aphid (*Aphis nasturtii*).

## CROP SPECIFIC INFORMATION

### TIMING

#### ACTARA on seed potato crops:

Application should occur early in the life of the crop, as soon as a warning of aphids is received or they are seen in the crop. It is important to prevent aphids becoming established so as to minimise virus transmission. ACTARA should be used as part of a programme of treatments for virus reduction and in alternation with products with a different mode of action.

#### ACTARA on ware crops:

Application should be made if aphids reach damaging numbers or the variety is sensitive to virus damage.

### Rates of Use

#### Ware Potatoes

Maximum Individual Dose: 80 g ACTARA per hectare

Maximum Number of applications: 1 per crop

#### Seed potatoes

Maximum Individual Dose: 80 g ACTARA per hectare

Maximum Number of applications: 2 per crop

Use no more than a single application of any neonicotinoid insecticide on ware potatoes, and no more than two applications of any neonicotinoid insecticide on seed potatoes.

### Harvest Interval

Do not harvest potatoes for at least 7 days after application of ACTARA.

Consult processors before use in ware crops.

## MIXING AND SPRAYING

Apply in 200 - 400 litres water per hectare using a suitable hydraulic sprayer. Good spray cover is required for optimal control of aphids.

Make sure the sprayer is set to give an even application at the correct volume. In all cases add ACTARA 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 ACTARA into the induction hopper and open valve in bottom of hopper to suck the granules into the circulating spray mix. Continue adding ACTARA 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 ACTARA through the sprayer lid and then add the remainder of water.

Agitate the mixture thoroughly before use and continue until spraying is complete.

Thoroughly wash all spray equipment with water after use.

## COMPATIBILITY

The following tank mixes have been tested for physical compatibility with ACTARA at recommended rates of use and will mix in the sprayer tank. No tests have been undertaken on crop safety or product performance therefore, use is at the user's own risk. Syngenta Crop Protection will support the physical compatibility of 2 or 3-way tank mixes of ACTARA with any of the fungicides or insecticides listed. For further information on compatibilities contact Syngenta Crop Protection on 0800 1696058.

### FUNGICIDES

|            |          |         |
|------------|----------|---------|
| Curzate M  | Infinito | SHIRLAN |
| Dithane    | Invader  | Tanos   |
| Epok       | Ranman   |         |
| FUBOL GOLD | REVUS    |         |

### INSECTICIDES

|       |                               |
|-------|-------------------------------|
| APHOX | HALLMARK with ZEON TECHNOLOGY |
|-------|-------------------------------|

Before using any tank mixture, consult and comply with the recommendations of the partner products. Each product should be added separately to the bulk of the water in the spray tank and thoroughly mixed before adding the next chemical. Always use constant agitation of the sprayer tank during mixing, transportation and application. Spray immediately.

## SAFETY PRECAUTIONS

### SAFETY PRECAUTIONS

Precautions marked \* are a legal requirement

#### (a) Operator protection

WASH HANDS before meals and after work

#### (b) Environmental protection

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

\* DANGEROUS TO BEES. To protect bees and pollinating insects do not apply to crop except as directed on potatoes. Do not use where bees are actively foraging. Do not apply when flowering weeds are present

\* Avoid spraying within 5m of the field boundary to reduce effects on non-target insects or other arthropods.

Do not contaminate water with product or its container.

#### (c) Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place  
RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

## RESISTANCE MANAGEMENT

Aphid control may be reduced if strains of aphid resistant to ACTARA develop. The greatest risk of resistance developing is perceived to come from *Myzus persicae*.

To minimise the risk of the development of resistance, ACTARA should not be used continuously or as the sole method of control. ACTARA is classified as a neonicotinoid, other active ingredients in this chemical class include thiacloprid, acetamaprid and imidacloprid. The application of one neonicotinoid should not immediately be followed by another. The application of ACTARA should be followed by the application of a product from a different group if pest pressure demands further treatment.

Use no more than a single application of any neonicotinoid insecticide on ware potatoes, and no more than two applications of any neonicotinoid insecticide on seed potatoes.

Total reliance on one pesticide will hasten the development of resistance; pesticides of different chemical types or alternative control measures should be included in the planned programme.

Alternating insecticides with different modes of action is a recognised anti-resistance strategy and ACTARA should always be used in alternation with other non-neonicotinoid insecticides of a different mode of action.

## ACTARA



### **DANGEROUS FOR THE ENVIRONMENT**

Contains 250 g/kg thiamethoxam formulated as a water dispersible granule.

### **VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT**

Keep out of reach of children

Keep away from food, drink and animal feeding stuffs.

When using do not eat drink or smoke

This material and its container must be disposed of in a safe way.

Use appropriate containment to avoid environmental

contamination.

**To avoid risks to man and the environment, comply with the instructions for use.**

### **IMPORTANT INFORMATION**

FOR USE ONLY AS AN AGRICULTURAL INSECTICIDE

For use on potatoes

| Crop                | Maximum individual dose (product/ha) | Maximum number of treatments | Latest time of application |
|---------------------|--------------------------------------|------------------------------|----------------------------|
| Potato (ware crops) | 80 g                                 | 1                            | 7 days before harvest      |
| Potato (seed crops) | 80 g                                 | 2                            | 7 days before harvest      |

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

## SUMMARY INFORMATION

### FORMULATION

ACTARA contains 250 g/kg thiamethoxam formulated as a water dispersible granule. It controls a range of aphids that commonly attack seed and ware potatoes including strains of *Myzus persicae* resistant to organophosphate, carbamate and pyrethroid insecticides.

### TIMING

ACTARA on seed potato crops: Application should occur early in the life of the crop, as soon as a warning of aphids is received or they are seen in the crop. It is important to prevent aphids becoming established so as to minimise virus transmission. ACTARA should be used as part of a programme of treatments for virus reduction and in alternation with products with a different mode of action.

ACTARA on ware crops: Application should be made if aphids reach damaging numbers or the variety is sensitive to virus damage.

### DOSE

Maximum Individual Dose:

80 grams product per hectare

Maximum Number of Treatments:

Potato (ware crops): 1

Potato (seed crops): 2

### LATEST TIME OF APPLICATION

7 days before harvest

### BEST USE GUIDANCE

ACTARA is recommended for use in ware and seed potatoes.

### WATER VOLUME

Apply ACTARA in 200 - 400 litres water per hectare using a suitable hydraulic sprayer.

**For further technical information contact:**

FREEPHONE 0800 169 6058 or e-mail: [customer.services@syngenta.com](mailto:customer.services@syngenta.com)

**Syngenta Crop Protection UK Ltd**, Whittlesford, Cambridge CB22 4QT

Tel: (01223) 833621 Fax: (01223) 835211 Website: [www.syngenta-crop.co.uk](http://www.syngenta-crop.co.uk)

ACTARA® is a Registered Trademark of a Syngenta Group Company. All other brand names used are Trademarks of other manufacturers in which proprietary rights may exist.

ACTARA (MAPP 13728) contains thiamethoxam.

**Always read the label. Use pesticides safely.**

©Syngenta AG October 2007. VEG35. GQ.



This product leaflet is compliant with the CPA Voluntary Initiative (VI) guidance.

**syngenta**®

[www.syngenta-crop.co.uk](http://www.syngenta-crop.co.uk)