

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.

GENERAL INFORMATION

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.

ACTARA belongs to the neonicotinoid class of chemicals. It has contact, stomach and systemic properties. ACTARA applied as a foliar spray provides rapid knock down of aphids and through its systemic activity long lasting (typically 2–3 weeks) efficacy against re-invasion of aphids. ACTARA applied to the soil at planting as an in-furrow spray will provide protection against aphid infestation during the early growth of the crop; typically for three to four weeks after crop emergence.

PESTS CONTROLLED

ACTARA when applied as a foliar spray will reduce the transmission of potato viruses (e.g. potato leaf roll virus and potato virus Y) by controlling the aphid vectors which spread these viruses. 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*). The use of ACTARA as an in-furrow treatment for seed potatoes at planting will provide early protection against the establishment of aphids which will also help in minimising the early transmission of virus diseases.

RESISTANCE

Aphid control may be reduced if strains of aphid resistant to ACTARA develop. The greatest risk of resistance developing is perceived to come from the peach potato aphid (*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 (thiamethoxam) is classified as a neonicotinoid. Other active ingredients in this chemical class include thiacloprid, acetamiprid and imidacloprid. The application of one neonicotinoid insecticide 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. Where ACTARA is used as an in-furrow soil treatment for seed potatoes, this should be regarded as one of the two allowable neonicotinoid applications for 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.

CROP SPECIFIC INFORMATION

ACTARA as a foliar spray is recommended for use in early, maincrop and seed potatoes. ACTARA as an in-furrow soil treatment is only recommended for seed potatoes.

INSECTICIDE

TIMING – Foliar Applications

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. If ACTARA has been used as an in-furrow spray at planting then the first foliar insecticide used in the crop must come from a different chemical group. 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 from different chemical group/s.

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

RATE OF USE – Foliar Applications

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

TIMING – Soil Application

ACTARA as an in-furrow application can only be made to seed potato crops:

Application must be made at the time of planting the seed tubers and as part of the planting operation. Application at this time will provide protection against early aphid attack. In-furrow application should form part of a programme of treatments to minimise the risk of virus damage. Where an in-furrow application has been made the crop should be monitored after emergence and if aphids start to become established in the crop then follow up treatments should be made immediately.

If ACTARA has been used as an in-furrow spray at planting then the first foliar insecticide used in the crop must come from a different chemical group.

RATE OF USE – Soil Application

Seed Potatoes

Maximum Individual Dose: 100 g ACTARA per hectare

Maximum Number of applications: 1 per crop

HARVEST INTERVAL

For foliar applications do not harvest potatoes for at least 7 days after application of ACTARA.

Consult processors before use in ware crops.

MIXING AND SPRAYING

Foliar applications

Apply ACTARA as a foliar spray in 200–400 litres water per hectare using a suitable hydraulic sprayer. Good spray coverage 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

I N S E C T I C I D E

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.

In-furrow application to soil

For in-furrow application of ACTARA use between 50–150 litres of water per hectare. Apply using specialist in-furrow application equipment. Contact Syngenta Crop Protection for further details on suitable manufacturers of these sprayers.

Where ACTARA is applied as an in-furrow application, it should be directed into the planting furrow rather than the seed tuber. Application should be made using two nozzles per row – one at the front of the planting share and directed down into the furrow and the second, at the rear of the share and directed so as to spray the soil as it closes around the planted tuber.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack. Use in any other circumstances is entirely at user's risk.

PROTECT FROM FROST

SAFETY PRECAUTIONS**(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 5 m 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.

INSECTICIDE

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.

THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL INSECTICIDE

For use on potatoes

Crops	Maximum individual dose (product/ha)	Maximum number of treatments	Latest time of application
Potato (ware crops) as a foliar spray	80 g	1	7 days before harvest
Potato (seed crops) as a foliar spray	80 g	2	7 days before harvest
Potato (seed crops) as an in-furrow application at planting	100 g	1	At planting

Other Specific Restrictions: Only one foliar treatment may be applied to seed crops if an in-furrow treatment was made at planting.

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.

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

In case of toxic or transport emergency ring 01484 538444 any time