



# Actellic<sup>®</sup> 50EC

syngenta<sup>®</sup>

Product registration number: MAPP 19325

ACTELLIC<sup>®</sup> 50EC is an emulsifiable concentrate formulation containing 500 g/litre (49.02% w/w) pirimiphos-methyl.



A broad spectrum insecticide for use on stored grain.

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

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**In case of toxic or transport emergency ring  
+44 (0)1484 538444 any time**

*PROTECT FROM FROST*



The  
Voluntary  
Initiative

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

Product names marked ® or ™, the ALLIANCE FRAME  
the SYNGENTA Logo and the PURPOSE ICON  
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**Danger**

**Flammable liquid and vapour.**

**Harmful if swallowed.**

**May be fatal if swallowed and enters airways.**

**May cause an allergic skin reaction.**

**Causes serious eye damage.**

**May cause respiratory irritation.**

**May cause drowsiness or dizziness.**

**Causes damage to organs.**

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

Keep out of reach of children.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTRE/doctor.

IF exposed or concerned: Call a POISON CENTER/doctor.

Do NOT induce vomiting.

Collect spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for 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 19325**

**IMPORTANT INFORMATION**

**FOR USE ONLY AS AN INSECTICIDE IN FOOD STORAGE PRACTICE**

For use on wheat, triticale, barley and oats.

Crops/ situations	Maximum individual dose	Maximum number of treatments	Other specific restrictions
Admixture: stored wheat, triticale, barley and oats.	8 ml product/tonne grain.	One per batch of grain.	The maximum concentration must not exceed 8 ml product / 0.75 litres water.

**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.**

## **SAFETY PRECAUTIONS**

### **(a) Operator protection**

Pirimiphos-methyl is an anticholinesterase organophosphorus compound. DO NOT USE if under medical advice NOT to work with such compounds.

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT when handling the treated grain. A minimum requirement is a disposable filtering facepiece respirator to EN149 FFP3(S) or equivalent.

Application as a grain admixture must only be made using automated application equipment.

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

Operators must wear suitable protective gloves and face protection (faceshield) when handling the concentrate.

However, other engineering controls in addition to those specified above may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH SPLASHES OF CONCENTRATE from skin or eyes immediately.

ENSURE ADEQUATE VENTILATION IN CONFINED SPACES.

DO NOT BREATHE SPRAY.

DO NOT APPLY WITH HAND-HELD EQUIPMENT.

WASH HANDS AND EXPOSED SKIN before meals and after work.

TAKE OFF immediately all contaminated clothing.

COVER WATER STORAGE TANKS before application.

VENTILATE CONFINED SPACES THOROUGHLY.

IF SWALLOWED, do not induce vomiting; seek medical advice immediately and show this container or label.

DO NOT HANDLE grain unnecessarily

### **(b) Environmental protection**

DO NOT CONTAMINATE SURFACE WATER OR DITCHES with chemical or used container.

Wildlife must be excluded from buildings during treatment.

### **(c) Storage and disposal**

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.

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

DO NOT RE-USE CONTAINER for any purpose.

## IMPORTANT INFORMATION

FOR USE ONLY AS AN INSECTICIDE IN FOOD STORAGE PRACTICE

For use on wheat, barley and oats.

Crops/situations	Maximum individual dose	Maximum number of treatments	Other specific restrictions
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This leaflet is part of 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.

## RESISTANCE MANAGEMENT

Pirmiphos-methyl is an acetylcholinesterase organophosphate (IRAC 1B). Strains of saw-toothed grain beetle and the flour mite resistant to organophosphorus compounds are widespread and resistant strains of red-rust flour beetles have also been found. Where strains resistant to organophosphorus compounds are present ACTELLIC 50EC is unlikely to give satisfactory control of these pests. ACTELLIC 50EC should be used in alternation with products from differing mode of action groups where possible, and as part of an integrated pest management programme (see HGCA cereal guide for further information).

## PESTS CONTROLLED

ACTELLIC 50EC controls the following pests of stored grain:

Saw-toothed grain beetle (*Oryzaephilus surinamensis*), Grain weevil (*Sitophilus granarius*), Common flour mite (*Acarus siro*), Warehouse moth (*Ephestia elutella*), Flour or Mill moth (*Ephestia kuhniella*), Flour beetles (*Tribolium* spp.), Rust-red grain beetle (*Cryptolestes ferrugineus*) and Cosmopolitan food mite (*Glycyphagus destructor*).

## COMPLETE ADMIXTURE - Wheat, triticale, barley, oats

### Preparation

For best results the store should be thoroughly cleaned before the grain is added.

### Timing

Grain should be treated as soon as possible during storage. Ideally ACTELLIC 50EC should be applied to the grain as it is loaded into store. However, moist and/or warm grain should be dried and/or cooled before treatment. Vigorous drying and cooling operations can reduce the effectiveness of treatment by causing degradation of the insecticide. Whenever such operations are necessary for grain going into longer term storage they should be conducted prior to treatment, ideally before the grain is loaded into its final storage place

### Moisture content

For best results when using ACTELLIC 50EC moisture contents should be maintained at or below 15% for cereals. If the moisture content is higher the effectiveness of treatment and the period of protection can be reduced.

### Curative treatment

Always inspect grain following application to ensure that control is complete.

### SURFACE ADMIXTURE - Wheat, triticale, barley, oats

#### Preparation

Surface admixture will be effective only if the store is thoroughly cleaned and disinfested, and if the grain coming into store is free of insect or mite pests.

#### Treatment

Treat the surface layer of the grain bulk to a depth of at least 30-100cm. This can be done by first part filling the store and levelling the bulk of untreated grain. Treat the remaining grain as it enters the store, distribute evenly over the bulk to create a treated layer.

#### Storage conditions

Care should be taken to ensure that the moisture content of the grain is kept low (at or below 15% for cereals), and that the bulk is kept cool. Any subsequent movement of the surface layer will reduce the effectiveness of treatment.

Surface admixture of ACTELLIC 50EC is compatible with 'Integrated Pest Control' (IPC). Further details are available from specialist advisers or your local Syngenta adviser.

#### Important note

Surface admixture is recommended for use only where the above preparation, treatment and storage conditions can be achieved. The use of surface admixture under any other circumstances is at user's own risk.

Use	Instructions
<b>Complete or Surface Admixture</b>	Ensure good spray coverage of the grain or seed. Adjust the conveyor to produce a shallow, even flow of grain or seed at the point of application. Poor or uneven coverage may reduce the level of control.  Establish the grain or seed carrying rate of the conveyor and ensure accurate calibration of application equipment.  See above for additional information.
<b>Use</b>	<b>Instructions</b>
<b>Wheat, triticale, barley and oats:</b> including barley for malting, and milling wheat	<u>For a conveyor rate of 22.5-45 tonnes per hour:</u> Apply 8 ml product in 0.75 litres of water per tonne through a, medium/coarse type nozzle.  <u>For a conveyor rate of below 22.5 tonnes per hour:</u> Apply 8 ml product in 1.5 litres of water per tonne. This can be achieved using an orifice plate (e.g. 'Teejet' orifice plate 4916 series).

**Wheat, triticale, barley and oats**

**Maximum individual dose:** 8 ml product/tonne grain.

**Maximum number of treatments:** One per batch of grain.

**Other specific restrictions:** The maximum concentration must not exceed 8ml product / 0.75 litres water.

#### **Important Note**

Where grain has been treated by admixture, it must be labelled as follows: "THIS GRAIN HAS BEEN CHEMICALLY TREATED".

#### **MIXING INSTRUCTIONS**

Shake well before use. Half fill the spray tank with water and begin agitation. Add the required quantity of ACTELLIC 50EC to the spray tank and complete filling. Maintain agitation during application and apply immediately.

#### **Application**

Apply using a suitable liquid applicator. DO NOT APPLY surface admixture or complete admixture using hand held equipment. Follow the manufacturer's instructions and take care to minimise the risk of operator exposure. Consult your supplier or Syngenta UK Ltd for a list of application equipment suppliers.

#### **After Use**

Empty application equipment and clean thoroughly after use.

Part used containers must be securely sealed and stored away from food, drink and animal feeding stuffs.

Do not re-use the container for any purpose.

#### **Notes**

1. For best results when using ACTELLIC 50EC moisture contents should be maintained at or below 15% for cereals. If the moisture content is higher the effectiveness of treatment and the period of protection can be reduced.
2. Insecticide treatments tend to work more slowly, and be less effective in cold conditions.
3. Moist grain coming into store should be dried and cooled before treatment with ACTELLIC 50EC. Drying and cooling operations made after treatment can reduce the effectiveness of treatment.
4. Predatory mites (*Cheyletus*) are sometimes found in grain feeding on infestations of grain mites. They are not a pest species and do not harm grain, but their presence can cause rejection by buyers. Predatory mites can survive treatments of organophosphorus insecticides (e.g. ACTELLIC 50EC) and are sometimes found after curative treatments to control heavy mite infestations. They will not remain for long after their food source has been removed, but grain should be inspected carefully before selling.

**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.**

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