

## INSECTICIDE

### COMPATIBILITY

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No compatibilities available for this product.

### DIRECTIONS FOR USE

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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

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, barley, oats)

**Preparation:** For best results the store should be thoroughly cleaned before the grain is added by careful sweeping or by use of a suitable vacuum cleaner. Remove and dispose of all debris and sweepings that might harbour insects or mites.

**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, barley, oats)

**Preparation:** Surface admixture will be effective only if the store is thoroughly cleaned and disinfested (as described above), 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 30–100 cm. 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 Crop Protection adviser.

**I N S E C T I C I D E**

**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>Wheat, barley and oats: including barley for malting, milling wheat and seed</b>	For a conveyor rate of 22.5–45 tonnes per hour: Apply 8 ml product in 0.75 litres of water per tonne through a medium/coarse type nozzle. For a conveyor rate of below 22.5 tonnes per hour: 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, barley, oat grain and seed:**

**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 8 ml 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 Crop Protection 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.

**I N S E C T I C I D E**

- 3. Moist grain coming into store should be dried and cooled before treatment with ACTELLC 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. ACTELLC 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.
- 5. Handling grain treated with this product does not require the use of face and eye protection. However, dust from the grain itself has been known to cause irritation of eyes, throat, chest and skin and so when working with grain the use of eye protection and a dust mask is advisable.

**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**

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:

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

Other 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 when handling the treated grain and contaminated grain sowing equipment.

However engineering controls 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.

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 WATERS 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.

**ACTELLIC 50EC**



**HARMFUL**



**DANGEROUS  
FOR THE  
ENVIRONMENT**

Contains 500 g/litre (49.02% w/w) pirimiphos-methyl. Pirimiphos-methyl is an anticholinesterase organophosphate as an emulsifiable concentrate. Handle with care.

**FLAMMABLE.**

**HARMFUL BY INHALATION AND IF SWALLOWED.**

**IRRITATING TO EYES AND RESPIRATORY SYSTEM.**

**HARMFUL. MAY CAUSE LUNG DAMAGE IF SWALLOWED.**

**RISK OF SERIOUS DAMAGE TO EYES.**

**MAY CAUSE SENSITISATION BY SKIN CONTACT.**

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

Keep out of reach of children.

When using do not eat, drink or smoke.

Keep away from food, drink and animal feeding stuffs.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

This material and its container must be disposed of safely.

Use appropriate containment to avoid environmental contamination.

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

**I N S E C T I C I D E**

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 INSECTICIDE IN FOOD STORAGE PRACTICE

For use on wheat, barley and oats

<b>Crops/ situations</b>	<b>Maximum individual dose</b>	<b>Maximum number of treatments</b>	<b>Other specific restrictions</b>
Admixture: stored wheat, barley and oat grain and seed	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.**

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