

TALISMA[®] EC

Cypermethrin 80 g/L + Piperonyl butoxide 228 g/L
Insecticide treatment for grain and stores



I N S E C T I C I D E

**KEEP YOUR
GRAIN
QUALITY!**

- Broad spectrum of pest control
- Protection for up to 12 months
- No withholding period

Learn more at:

www.upl-ltd.com/uk



TALISMA[®] EC

WHY PROTECT STORED GRAIN?

Storing harvested crops creates an artificial eco-system that can be vulnerable to pest attacks. Insects are especially harmful because their presence alone depreciates the whole crop, with an infestation often only revealed when the time comes to move the stored grain. Using appropriate insecticides to protect the value of grain is an economic necessity. Without this added protection, an infection can lead to quantitative and qualitative losses, which can be devastating.

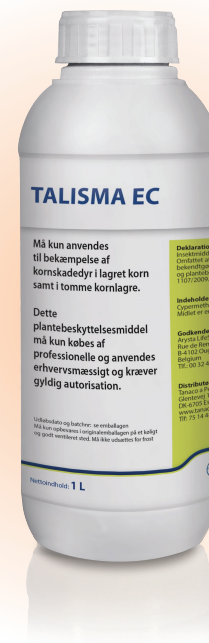
MODE OF ACTION - cypermethrin + synergist

Cypermethrin acts by ingestion and contact at very low doses.

It has a double effect by both contact and ingestion - shock (knockdown) the pest.

Cypermethrin successfully affects neurons by blocking axonal conduction (IRAC 3A). Once in contact with cypermethrin, sodium channels are blocked in the open position through a phase of hyperexcitability followed by hypoexcitability, until end paralysis and death. It is effective against most beetles, moths and mites.

The **Piperonyl** butoxide (**PBO**) has an important synergic action with cypermethrin. This molecule enters the nerve cell and inhibits the enzyme which usually detoxifies the cells after the cypermethrin action. Because of this, the **PBO** enhances the effects of the cypermethrin whilst also helping to overcome resistance.



TALISMA EC

Active ingredients	Cypermethrin: 80 g/L + Piperonyl butoxide: 228 g/L
Formulation	Emulsifiable concentrate (EC)
Usage	Direct application on stored grains and treatment of grain storage buildings.
Crops	Wheat, rye, barley, oats and rice, spelt, triticale
Dose rate	1-2 L/100 tonnes (for grains treatment) / 0.3-0.6 L/1000 m ² (for surface treatment)
Max. number of application	1 per year

BE CONFIDENT IN YOUR GRAIN STORAGE EFFICACY:

- High level of efficacy thanks to the association of cypermethrin and **Piperonyl** butoxide (**PBO**)
- Outstanding long-term preventive protection
- Good preventative and curative efficacy
- Good resistance management tool with PBO

A WIDE RANGE OF TARGETED PESTS

PRIMARY PESTS	
<ul style="list-style-type: none"> Perform the majority of their life-cycle as "hidden form" inside the grain 	
Pest	Common name
<i>Sitophilus oryzae</i>	Rice weevil
<i>Rhizopertha dominica</i>	Grain borer
<i>Sitophilus granarius</i>	Grain weevil
<i>Sitophilus zeamais</i>	Maize weevil
<i>Sitotroga cerealella</i>	Angoumois grain moth
<i>Acarus siro</i>	Cereal mite
<i>Tyrophagus putrescentiae</i>	Mold mite

SECONDARY PESTS	
<ul style="list-style-type: none"> Feed on broken kernels or grains bored by a primary pest May be found elsewhere than in the grain (other foods, derived foods from cereals, etc.) 	
Pest	Common name
<i>Oryzaephilus surinamensis</i>	Saw toothed grain beetle
<i>Tribolium castaneum</i>	Red flour beetle
<i>Tribolium confusum</i>	Confused flour beetle
<i>Cryptolestes ferrugineus</i>	Rusty grain beetle
<i>Blattella germanica</i>	German cockroach
<i>Plodia interpunctella</i>	Indian meal moth

FOR SURFACES AND GRAIN TREATMENT

available in concentrate solution, Talisma EC should be diluted before use.

GRAIN TREATMENT

Full Dose: 2 L / 100 tonnes

Dilute **TALISMA EC** in 98L of water per 100 tonnes of grain. Spray grain directly by using a pump and a nozzle. Place the nozzle by the base of the transport belt (screw auger or elevator) at the start of the grain path, avoiding contact of the spray solution.

SILOS AND SURFACE APPLICATION

Full dose : 0.6 L / 1000 m²

Dilute **TALISMA EC** with 50-100L of water per each 1000 square meters of surface to be treated. Prior to treatment, empty and clean the warehouse by removing all dirt, dust, spider webs, etc. Apply carefully on the walls, ceiling, floor, supporting structures and frames (especially around doors and windows). After treatment, seal the warehouse tightly and leave it for 48 hours.

SPRAY EQUIPMENT

Examples

Spraying equipment:

Backpack sprayers, low pressure sprayers, ULV sprayers, and cold or heated aerosol generators.

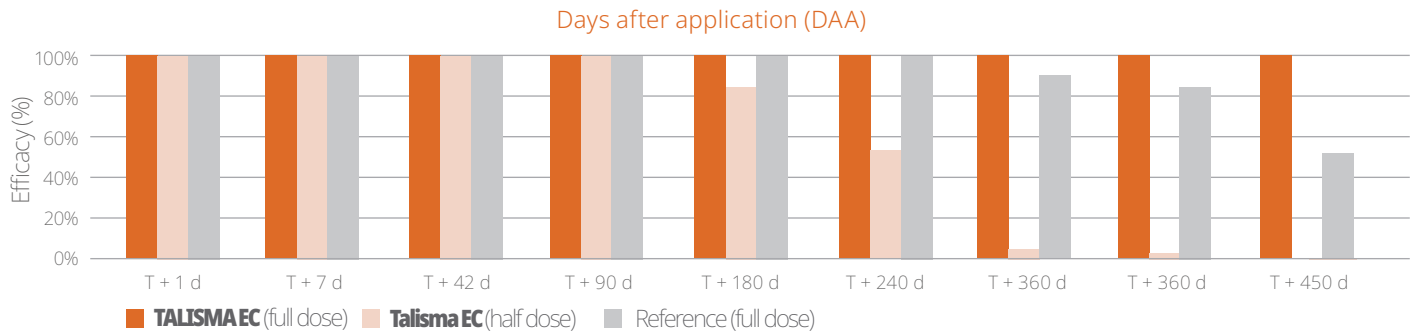


TALISMA EC PROVEN EFFICACY

PREVENTIVE EFFECT - LONG TERM PROTECTION

TALISMA EC is highly recommended for its preventive effect. Cypermethrin protects the entire envelope of the grain thus preventing any penetration of the parasite in the grain.

Preventive efficacy of **TALISMA EC** Tested against *Sitophilus granarius* on wheat



Half dose, protection is provided for minimum of **three months**.

1 L per 100T



Full dose, we at least **12 months** and up to **15 months with 100% protection**.

2 L per 100T

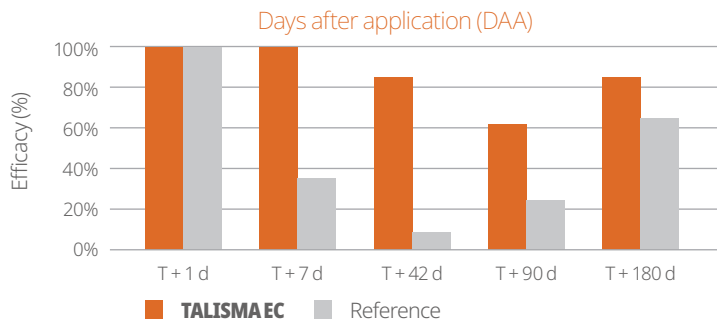
Source: Agriphar Trial 1187-0307/2009/Anglet - France

CURATIVE EFFECT

Curative treatment is still possible and effective, but with the higher dose rate, and with lower persistence.

Curative efficacy

Curative efficacy of **TALISMA EC** on the 1st progeny of introduced *Sitophilus granarius* on wheat.



Speed of action



A full dose (1,68ppm), less than **3 hours** are sufficient to obtain 100% mortality of **weevil population** in an infested cereal.

Sources: Agriphar 2009 + Agriphar Trial 11516/2006/Gembloux - Belgium

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