



K-Obiol

EC25

Liquid Grain Protectant for the control of stored product pests.

Important information and Directions for use on the inside label.

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.

For 24 hour emergency information contact Bayer CropScience Limited.
Telephone: 0800 220876 (UK 24 hr), +44(0)1603-242424 (Overseas 24 hr) or nearest National Poisons Information Centre.



HARMFUL

**Risk and safety information :
K-OBIOL® EC25**

Contains 25 g/litre deltamethrin and
225 g/litre piperonyl butoxide

Flammable.

Harmful by inhalation and if swallowed.

Harmful: may cause lung damage if swallowed.

Irritating to the respiratory system.

Risk of serious damage to the eyes.

Repeat exposure may cause skin dryness or cracking.

**Very toxic to aquatic organisms, may cause long-term
adverse effects in the aquatic environment.**



**DANGEROUS FOR
THE ENVIRONMENT**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
When using do not eat, drink or smoke.

Do not breathe spray.

Keep out of reach of children.

Keep away from food, drink and animal feeding stuffs.

Wear eye/face protection.

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 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.

MAPP 13573, PCS No 03641

An emulsion concentrate formulation
containing 25 g/litre Deltamethrin,
225 g/l Piperonyl butoxide and solvent naphtha.

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The
Voluntary
Initiative

This label is compliant with
the CPA Voluntary Initiative Guidance.

Authorisation holder:

Bayer S.A.S.

Bayer Environmental Science

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CS 90106

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FRANCE

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Bayer Environmental Science SAS.

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Bayer

SAFETY PRECAUTIONS

Operator Protection

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

WEAR SUITABLE PROTECTIVE GLOVES, FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT (DISPOSABLE FILTERING FACEPIECE RESPIRATOR) for handling the concentrate during grain treatment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS, FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT (DISPOSABLE FILTERING FACEPIECE RESPIRATOR) when using as a surface treatment spray.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection - UK only.

TAKE OFF IMMEDIATELY all contaminated clothing.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice immediately (show label where possible).

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.

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 3 times. Add washings to the sprayer at the time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

WHO-classification: II (moderately hazardous).

FOR PROFESSIONAL USE ONLY

Important Information:

FOR USE ONLY AS AN AGRICULTURAL INSECTICIDE IN FOOD STORAGE PRACTICE

Crops/situations: For use on stored grain and pulses, fabric of buildings and crop handling equipment.

Maximum individual dose:

Direct admixture with grain: 1 litre to 100 tonnes of grain/pulses.

Treatment of Crop handling equipment and storage structure: 60 ml per 100 m²

Maximum number of treatments: Crop handling equipment and storage structure: 1 per annum

Complete admixture for grains, pulses
1 per batch

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

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.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

GENERAL INFORMATION:

K-Obiol® EC25 is a liquid pyrethroid based grain protectant for the fabric of building and admixtures for the control of crawling insects grain weevils (*Sitophilus granarius*), flour beetles (*Tribolium castaneum*), grain borers (*Rhyzopertha dominica*), sawtoothed grain beetles (*Oryzaephilus surinamensis*) and bean weevils (*Acanthoscelides obtectus*) and flying insects - warehouse moths (*Euphestia cautella*), rice moths (*Corcyra cephalonica*), Indian meal moths (*Plodia interpunctella*) and grain moths (*Sitotroga cerealella*).

RESTRICTIONS:

The Maximum Residue Level (MRL) on whole cereal grains for deltamethrin is 2 ppm.

The Maximum Residue Level (MRL) on pulses for deltamethrin is 1 ppm.

When applied at the recommended rates, the residue levels of K-Obiol® EC25 is 0.25 ppm.

APPLICATION:

The residual life of the treatment depends on the type of application and the surface.

Complete direct admixture with grain and pulses

For maximum efficacy follow 'The grain storage guide' published by the Home-Grown Cereals Authority (HGCA), the moisture content should be below 14.5% and the temperature below 12°C before admixture and during storage.

Storage of grain with a higher moisture content will reduce the efficacy of the treatment.

K-Obiol® EC25 is diluted with water and applied using low-pressure nozzles situated over the conveying machinery, as near to the final storage place as possible. The application rate should be adjusted to apply 1 litre of solution per tonne of grain/pulses. Dilute 1 part K-Obiol® EC25 with 99 parts water (1 litre of concentrate to 99 litres of water treats 100 tonnes of grain/pulses) to provide up to 12 months protection against listed crawling insects and up to 2 months against listed flying insects i.e. moths.

Treatment of storage buildings/equipment

There is no waiting period between treatment and use of buildings/equipment, however for maximum efficacy, treatments should be applied to a previously cleaned store, 3 to 4 weeks before filling. The performance may be impaired on concrete surfaces. The store should be thoroughly swept or vacuumed to remove all loose fragments and previous stored crop waste that could shelter pests. This debris must be burned or disposed of well away from the building. Guidance on cleaning of grain stores can be obtained from the 'The grain storage guide' published by the Home-Grown Cereals Authority (HGCA).

Use a knapsack sprayer equipped with a low pressure nozzle producing a medium to coarse spray.

Absorbant surfaces (e.g. unsealed wood and concrete) - Add 20 to 30 ml of K-Obiol® EC25 to each 5 litres of water. Spray at a rate of 5 litres of solution per 50 sq metres.

Non-porous surfaces (e.g. metal, sealed wood, sealed concrete) - Add 40 to 60 of K-Obiol® EC25 to each 5 litres of water. Spray at a rate of 5 litres of solution per 100 sq metres.

The treatment provides 2 month protection.

RESISTANCE

Where strains resistant to deltamethrin occur or develop, effective control will not be achieved.

First Aid Advice

Contact with Skin:

Remove contaminated clothes and shoes. Wash off skin with plenty of soap and water.

Seek medical advice immediately.

Contact with Eyes:

Rinse immediately with cold water for at least 15 minutes. Seek medical advice immediately.

In case of Ingestion:

Wash out mouth with water. **Do not induce vomiting.** Do not give anything to eat or drink.

Ensure airway is clear. Seek medical advice immediately.

In case of Inhalation

Following more than incidental inhalation remove patient to fresh air, make them rest and keep them warm. Seek medical advice immediately.

Medical Treatment

There is no specific antidote to deltamethrin and piperonyl butoxide or the product as formulated. Symptomatic and supportive therapy is indicated.