



K-Obiol[®] EC25



INSECTICIDE

- ✓ Liquid Grain Protectant for the control of stored product pests
- ✓ Fabric of the building treatment
- ✓ No with-holding period
- ✓ Admixture
- ✓ Pyrethroid formulation

K-Obiol[®] EC25

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



DANGER

Flammable liquid and vapour.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Causes serious eye damage.
Harmful if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Very toxic to aquatic life with long lasting effects.
Ground/bond container and receiving equipment.

Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Call a POISON CENTER or doctor/physician.
Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty triple rinsed containers which can be disposed of as non-hazardous waste.
Repeated exposure may cause skin dryness or cracking.
To avoid risks to human health and the environment, comply with the instructions for use.

MAPP 13573, PCS No 03641

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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.
From the UK: 0800 220876,
From Republic of Ireland: Freephone: 1800409399 or:
UK: Nearest Poisons Information Centre
Ireland: For information or to report a poisoning incident contact The National Poisons Information Centre, Beaumont Hospital, Dublin (01-8092166), retain the label for reference.

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Liquid grain protectant



Bayer

K-Obiol[®] EC25 is a registered trademark of Bayer CropScience Ltd.

Batch number : See on the pack

Authorisation holder:
Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge CB4 0WB
From the UK and the Republic of Ireland: 00800 1214 9451
www.pestcontrol-expert.com
for MSDS and larger label

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.

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.

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 or applying by hand-held equipment.

*Half-mask to at least EN 140 with a combination filter to at least EN141 A1P2 or equivalent.

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).

WHEN USING DO NOT EAT, DRINK OR SMOKE.

DO NOT BREATHE SPRAY.

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 OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

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.

Use appropriate containment to avoid environmental contamination.

Dispose of contents/container to a licensed waste disposal contractor or collection site except for empty triple rinsed containers which can be disposed of as non-hazardous waste.

WHO-classification: II (moderately hazardous).

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 grain protectant for the fabric of building and admixtures for the control of stored product pest including crawling insects such as 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 such as 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 3 months against listed flying insects i.e. moths.

Treatment of grain 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.