

DESERVE

An Emulsion Concentrate (EC) formulation containing 25 g/L Deltamethrin, 225 g/L Piperonyl butoxide and solvent naphtha for use as an insecticide in food storage practice.

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

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



MAPP: 19504

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

SAFETY INFORMATION



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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Repeated exposure may cause skin dryness or cracking.

To avoid risks to human health and the environment, comply with the instructions for use.

Approval holder:

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Sharda Cropchem

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BATCH NUMBER: XXXX

PRODUCTION DATE: DD/MM/YYYY

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) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when 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.

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.

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

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.

Use appropriate containment to avoid environmental contamination.

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.

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

IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL INSECTICIDE IN FOOD STORAGE PRACTICE

Crops/situations	Maximum individual dose	Maximum total dose:	Maximum number of treatments	Latest time of application
Crop handling and storage structure	0.6 ml product / m ²	-	1 per annum	-
Grain, pulses	10 ml product / tonne	-	1 per batch	-

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 authorised 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.

PESTS CONTROLLED

Deserve 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 (*Coryca cephalonica*), Indian meal moths (*Plodia interpunctella*) and grain moths (*Sitotroga cerealella*).

APPLICATION

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

Complete direct admixture with grain and pulses

Deserve 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 Deserve 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 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). The performance may be impaired on concrete surfaces.

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

Absorbent surfaces (e.g. unsealed wood and concrete) - Add 20 to 30 ml of Deserve 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 Deserve 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.

COMPANY ADVISORY INFORMATION

For maximum efficacy when applying as a direct admixture to grains or pulses, 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.

The following does not form part of the product label under the UK Plant Protection Products Regulations.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use or the weather conditions before, during and after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

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