



YOUR SPECIALIST SUPPLY PARTNER

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TN500 NEW GENERATION HARD SURFACE TREATMENT FOR POULTRY SHEDS

APVMA Approval Number: 70464/63489

Insecticide – Repellent – Detergent – Deodoriser – Environmental Control Agent

Specifically designed for the control of Lesser Meal Worm (Black Litter Beetle) in the Poultry Industry.

- An organically based product - Biodegradable and is non-accumulative in soil or water at recommended dilutions.
- Harmless to poultry even if ingested at recommended dilutions.
- No interference with poultry dietary programs.
- Completely soluble in water.
- Non-hazardous at recommended dilutions; safe to use in all circumstances and gentle enough for use on any surface.
- No special skin protection or respirator is necessary at recommended dilutions.
- No significant ingredient is classified as carcinogenic as per the product SDS.
- Contains no:
 - caustic compounds
 - petroleum solvents
 - soaps
 - abrasives
 - acids
- Natural sustained deodorising properties.
- No quarantine period is necessary following its use unlike Poison Schedule 6 Pesticides. Therefore farm personnel can enter the sheds immediately after treatment and litter can be placed, making it possible to save a full day in shed cleaning process.
- No restrictions on the number of treatments in any period.
- Creates an environment repellent and toxic to insect pests which will avoid the areas where TN 500 is applied.
- Primarily not a nervous system reactant as compared to Schedule 6 Poisons currently used and therefore does not primarily kill insect pests via the same process as seen with S6 poison insecticides.
- Is strongly hydrophobic and thereby adheres to and penetrates the oily/resinous surface of insects.
- No immunity or occurring resistance and therefore no requirement to alternate the use of insecticides.
- Developed and marketed by Australian companies.
- The only product marketed meeting all these criteria.



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VISUAL RESULTS AND EXPECTATIONS

- As explained, TN 500 is primarily not a nervous system reactant as compared to Schedule 6 Poisons currently used and **does not primarily kill insect pests via the same process as seen with S6 poison insecticides.**
- Due to this unique action process the beetles' exterior surface needs to make sufficient contact with the product to penetrate the insect exterior and destroy it.
- **Unlike S6 Poisons, all dead beetles may not be visible as many will crawl away to hide and then die once TN 500 penetration has occurred.**
- The essential method to achieve the expected kill rate is not by increasing the concentration but by applying the recommended volume of diluted product. In the case of pre-existing heavy beetle infestations, an increased volume of TN 500 may be necessary for the initial applications. Once infestations are reduced the recommended TN 500 volumes above can be used in the regular treatment maintenance plan.
- Reducing the volume of the diluted product used will noticeably decrease the kill rate against beetles as the product may not penetrate sufficiently into cracks and crevices to make adequate contact with beetles.
- The volumes, dilution and application methods recommended by Filchem Australia should be adhered to when using TN 500, otherwise Filchem Australia cannot ensure a successful outcome.
- **TN 500 is an Australian Pesticides and Veterinary Medicines Authority (APVMA) approved insecticide. Approval Number 7046/63489.**

NO IMMUNITY OR OCCURRING RESISTANCE

Most insecticides are used as part of an integrated management program to extend the field efficiency of insect control agents and to help minimise the build-up and carry-over of resistance to insect populations. **TN500 is primarily not a nervous system reactant** which thereby removes the issue of resistance through genetic variation. Therefore, there is no requirement to alternate the use of any other insecticide when using TN500. Its natural but powerful synergisms are reflected in the effectiveness of this new generation approach to selective insect control.

INSECT CONTROL

Through the use of our exclusive Australian Native Essential Oils and Plant Based Eleo Esters, TN500 provides a **repellent** environment and is **toxic** to crawling insect pests. This breakthrough in surface chemistry provides powerful penetrating properties to the spray solution. These purpose built compounds are strongly hydrophobic carrying the actives through all moisture barriers to the surface of the insect where they adhere to and penetrate their oily/resinous surface, allowing more efficient access for the actives.

DETERGENT

TN 500 used as a detergent is a gentle yet potent shed wash, highly effective and non-hazardous in assisting Black Litter Beetle control. It can be used at a lower concentration when used as a shed wash only.

DEODORISER

TN 500 takes advantage of powerful deodorising properties from Australian native essential oils providing efficient, long lasting natural deodorising to all treated surfaces. A fresh fragrance of the Australian bush lingers long after use, giving a clean and 'cared for' appeal to all treated areas.



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USES

- A more effective insecticide replacement for the Schedule 5 & 6 Poisons currently used within the industry in an attempt to control infestations of Lesser Meal Worm (Black Litter Beetle).
- TN 500 creates a repellent environment and is toxic to insect pests.
- A versatile and efficient poultry shed wash.
- Maintains a lasting deodorising effect.

GENERAL DIRECTIONS FOR USE:

Day 1 Remove chickens from shed.

Day 2 Remove litter from shed and sweep floor.

Day 3 Wash shed interior (walls, floors and ceiling) with Filchem On Guard cleaning concentrate using high pressure water at a dilution of 1 part On Guard to 100 parts water i.e. 1:100.

Day 4 Apply TN 500 to shed interior using a large droplet spray at a dilution of 1 part TN 500 to 50 parts water. Dowse shed walls, floors and ceilings thoroughly, until 'run off' occurs. External areas of shed perimeter should be dowsed to a distance of 1 metre from shed walls.

Day 5 New litter can be applied to shed.

Poultry farm owners and managers often have differing clean out practices. Through our personalised service we can tailor the application procedures to each farm as required, to achieve cleaner sheds and the most effective outcomes against Black Litter Beetle infestations.

Consult your  technical representative for more specific details.



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FIELD TRIAL WORK ASSISTED AND/OR PERFORMED BY:

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- Bachelor of Horticulture (Environmental)
- Biological Technicians Certificate
- Member of Australian Institute of Horticulture
- Member Australian Society of Parasitology
- Member Australian Entomological Society

Associate Professor Peter Groves

- Bachelor of Veterinary Science
- Doctor of Philosophy
- Member Australian College of Veterinary Scientists
- President, the Commercial Poultry Veterinarians of the AVA, since 2011
- Deputy Director, the Poultry Research Foundation, the University of Sydney,
- Adjunct Senior Lecturer, Charles Sturt University, Wagga Wagga NSW, since 2005
- Adjunct lecturer, James Cook University, Townsville, QLD, since 2007
- Director, Zootechny Pty Ltd: since 2003 providing consultancy to Baiada Poultry Pty Ltd (Steggles), HiChick Breeding Company, D.A. Halls Poultry and International Animal Health Products Pty Ltd.

Dr Peter Miller

- MSC Forest Entomology
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