

Poultry Care

Product information

Poultry Care provides lasting protection against all major poultry disease and infections

1. How does Poultry Care work?

1.1 Sterile Alkaline Environment: - Poultry Care maintains a sterile alkaline environment in excess of pH 12 for sustained periods over 24 hours.

1.2 Temperature Increase: - The exothermic reaction of Poultry Care with water creates a sudden temperature rise, to over 70°C in a matter of minutes, destroying all but the most thermally resistant organisms.

1.3 Water Absorption: - During reaction of Poultry Care with water, up to 650 litres of water per tonne of Poultry Care can be absorbed. This means that the treated area is rapidly dried and any water absorbed, leaving a more stable and sanitary environment.

1.4 Deodorization: - Poultry Care prevents odours by killing off the biological organisms causing odours, and also prevents fermentation of the effluent which reduces odours.

2 How do you use Poultry Care?

2.1 Dose: - 500 g/ m²

2.2 Packaging: - 25 kg bags (1000 kg per pallet).

2.3 Instructions for use: -

- Pre-wet ground as necessary
- Sprinkle Poultry Care at the above dosage rate of 500 g/ m²
- Leave to act for at least 24 hours before bringing in poultry
- Make sure that the thermal reaction is finished; this can be tested by temperature probe or manually by hand
- As a precaution the user may want to re-wet the ground to be certain the full reaction has taken place

2.4 Frequency: -

- Poultry Care is used externally during the normal sanitation cycle of the poultry production unit, that is to say when sanitisation of the building is carried out prior to housing a new flock.
- For added peace of mind Poultry Care can also be used to sanitise poultry runs when the flock is in place given the above precautions, it is common to reapply if the ground becomes muddy or unstable and the drying effect of Poultry Care is required as well as additional sanitisation.
- Poultry Care is perfectly safe and will not harm the birds if the above guidelines are followed.

3. What is Poultry Care effective against?

3.1 Poultry Care is highly effective in killing off all major organisms that are known causes of disease and infection in livestock and poultry. Its effect can be best summarised as follows.

3.2 Bacteria: -

- **Faecal coliforms:** reduction of more than 99 % of initial populations. (Alexandre *et al*, 1975), *Escherichia coli* reduction of 4 log₁₀ (Ferney, 1983).

- **Faecal Streptococci:** reduction of more than 4 log₁₀ (Alexandre *et al*, 1975), *Escherichia coli* reduction of 4 log₁₀ (Ferney, 1983).
- **Salmonellae:** complete destruction although their life lasts more than 1000 days in excrement (Pfuderer, 1984)
- **Mycobacteria** (tuberculosis), *Brucella*
- **Spores:** reduction of more than 4 log₁₀ of *Bacillus anthracis* (Anthrax) (Lindner). Reduction of 4 log₁₀ of *Clostridium butyricum* (transformation of dairy products) (Alexandre *et al*, 1975)

3.3 Viruses: -

- **H5N1** (Institute Pasteur Lille, 2007) and **Newcastle Virus Disease** DEFRA, approved list of disinfectants (2007)
- **Poliovirus** (meningitis, poliomyelitis,...): inactivation in 30 minutes,
- **Reovirus** (diarrhoea, colds etc): inactivation in 3 hours (Strauch, 1983)

3.4 Parasites: -

- **Coccidiosis:** 4 log₁₀ reduction achieved (Scottish Agricultural College)
- **Ascaris eggs:** complete destruction in less than 1 hour (Feachen, 1978 and Schuh, 1984).
- **Platyhelminth eggs** (tenia etc): 98 % destruction (Gaspard *et al*, 1996)
- **Nematode eggs:** 84% destruction (Livery-Guérande treatment plant, France)
- **Giardia spores:** 68% reduction (Schwartzbrod, 1989)

4. Characteristics of Poultry Care

4.1 Product quality: -

- It is a highly concentrated product (96% CaO – Calcium Oxide)
- It is a very fine product (0-1mm)
- It is a very hygroscopic product
- It is a traced product manufactured in certified factories.

4.2 Quantity of product to spread: -

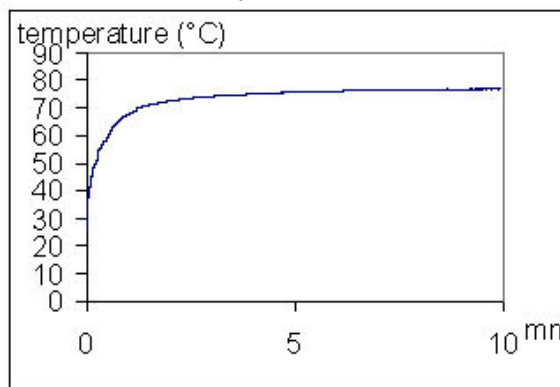
- 500g of Poultry Care per 1m²
- Repeat every three months or as necessary.

4.3 Strong base: -

- The reaction of Poultry Care causes a sudden increase in pH which can typically reach a pH value of 12.5. At this level of pH, the environment is disinfected.

4.4 Thermal effect on hydration: -

- The reaction of Poultry Care causes a sudden rise in temperature >70°C only 2 minutes after hydration.



4.5 Dehydration agent: -

- Poultry Care is strongly water absorbent; by drying the environment it therefore helps destroy pathogens.

5. Contact details

For more information on Poultry Care and its applications please contact:
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Poultry Care is 'Sanniblanco D', distributed in association with manufacturer Lhoist.