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AMMONIA ELIMINATION PROTOCOLS FOR BROILERS



AmmonFree NATURAL BACTERIA

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PROTOCOL

COMMERCIAL GROWERS APPLICATION

PREAMBLE:

Damages caused by ammonia (NH_3) in chicken houses for broilers production are well documented. Chickens suffer health problems as soon as ammonia levels exceed 5 ppm.

Some of the consequences are:

- * Higher mortality
- * Reduced food to weight conversion
- * Burnt feet
- * Burnt chest
- * Damaged organs
- * Burnt respiratory tracts

The above is not a complete list and does not take in to account the health of the workers in the chicken house.

Ergofito metabolizes ammonia (NH_3) into proteins and amino acids. The results are rapid (usually within five minutes after Ergofito application). It is a natural conversion, thus it does not

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have a secondary or a negative effect on the birds or the environment. AmmonFree's primary function is ammonia metabolization, the benefits emanating from the absence of ammonia in chicken houses are important and consequential. The product is safe for all living matters including plants.

PROTOCOL:

There are various methods used when starting a new chicken growing cycle. The chicks introduced are generally one day old. For that reason, some growers place paper over the laid bedding, that prevents the young chicken to mistake wood shavings or parts of the bedding for food.

IN CASE PAPER IS USED TO COVER BEDDING:

When paper is used, do not spray Ergofito until seven days after paper removal. Seven days is an indication based on the chicken density in the chicken houses as per table below:

DENSITY PER M2	DAYS
8 TO 10 CHICKENS	8 DAYS
11 TO 18 CHICKENS	7 DAYS
19 TO 22 CHICKENS	6 DAYS



IN CASE PAPER IS NOT USED TO COVER BEDDING:

When paper is not used, then the you can apply Ergofito as per table here below which implies day one , the day that chicks are introduced in the chicken house.

DENSITY PER M2	DAYS
8 TO 10 CHICKENS	11 DAYS
11 TO 18 CHICKENS	10 DAYS
19 TO 22 CHICKENS	9 DAYS

APLICATIONS:

The application is made by Knap sack either manual or battery operated. Avoid any blowers or equipment that generates noise. Ensure that all personnel applying AmmonFree wears only blue clothing and blue boots to avoid scaring the chickens.

The application consists of 150 ml of water per m² per application. If the chicken house is 3000 m², then you will need 450 liters of water per application mixed with 2% Ergofito. That is 9 kg of AmmonFree, mix it with water and apply.

The above application is done every seven days or longer depending on ammonia measurements (keep ammonia below 2 ppm for best results).



IN CASE AmmonFree APPLICATION IS DONE WHEN CHICKENS ARE THREE WEEKS OR OLDER:

When AmmonFree is applied in a chicken house commencing on the third week or later, apply on the floor as normal but also spray the chicken house internal walls up to 30 cm height the first time only.

GENERAL INFORMATION:

When applying AmmonFree on the bedding, it may not be possible to cover 100% of the area due to chicken movement or human coverage mistake. This is not a problem as chickens will dissipate via their feet throughout the chicken bedding.

Avoid spraying directly on the chickens, although no damage is done it reduces the amount of AmmonFree being applied on the bedding.

The quality of the bedding will substantially improve, the producer can judge if he wishes to re-use the same bedding for the next production cycle or replace it. During the removal there will be no smell as there is no ammonia. The bedding can also be used as a base fertilizer without the risk burning the plant's roots. It is imperative to ascertain case by case the above.

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