

## WHAT QUANTITY SHOULD I USE ?

### FOR PIG

#### On slatted floor and concrete:

- Spread over scraped damp areas:
  - fattening: **200 g/m<sup>2</sup>/week**
  - sows: **50 to 100 g/day/sow**

#### On bedding or outdoors:

- Spread **500 g/head/week** before mulching straw or **300 to 500 g/pig house/week**

### FOR POULTRY & RABBIT

#### Between 2 batches (when the whole flock is removed):

- On bare ground, before laying straw: **300 to 500 g/m<sup>2</sup>**  
Depending on wetness and crusting of the floor

#### During a batch:

- On soiled bedding before mulching fresh straw: **300 to 500 g/m<sup>2</sup>**
- On slatted floor: **100 g/m<sup>2</sup>, 1 to 2 times/week**
- In prevention of heat stroke: **500 g/m<sup>2</sup> on bedding in the morning**

#### On spoil conveyor or pit:

- **250 g/m<sup>2</sup>** or per linear metre

### FOR RUMINANT & HORSE

#### When mucking out:

- On bare ground, before laying straw: **300 g/m<sup>2</sup>**

#### In stall, straw bedded pen, sheep pen, box:

- On soiled bedding before mulching fresh straw: **1 kg/LU/week**  
(2 kg if it is really wet)

#### In cubicle, on slatted floor or mat:

- **100 g/day/LU** (apply after cleaning)

#### Calf housing:

- **150 g/m<sup>2</sup>, 1 to 3 times/week**

#### Lambing and calving pens :

- **200 to 300 g/m<sup>2</sup>**

#### Kennel:

- **200 g/m<sup>2</sup>/week**

Good to know !

**1 = 50 g**  
handful approximately

## HOW DO I USE AND SPREAD BIOSUPER REPELLENT ?

### WHEN LAYING NEW BEDDING



Step 1  
Take out the manure



Step 2  
Spread Biosuper



Step 3  
Lay fresh bedding

### WHEN REFRESHING BEDDING



Step 1  
Spread Biosuper on the soiled bedding



Step 2  
Lay the additional bedding

### ON BARE GROUND (PENS, CORRIDORS...) OR SLATTED FLOORS



Step 1  
Scrape



Step 2  
Spread Biosuper

Please keep in mind **BIOSUPER ON BEDDING : Before laying straw**  
**BIOSUPER ON BARE GROUND: After scraping**

**BIOSUPER**  
Repellent

is recommended by :

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**25 YEARS EXPERIENCE**  
and always improving  
performance levels



**BIOSUPER**  
Repellent

**A HEALTHY BREEDING  
WITHOUT AMMONIA  
WITHOUT INSECTS**



Hygiene powder  
for healthy  
beddings

- > DRIES GROUNDS AND AMBIENT AIR
- > NEUTRALISES AMMONIA
- > SANITISES BREEDING ENVIRONMENT
- > CONTROL OF INSECTS





## A HEALTHY ANIMAL HUSBANDRY

### 1 DRIES GROUNDS AND AMBIENT AIR, STOPS BEDDING FERMENTATIONS

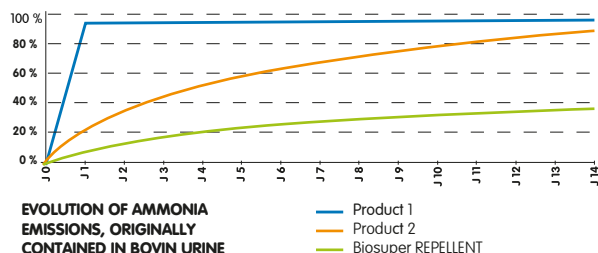
- Thanks to its triple effect "**absorption, swelling, hygroscopy**", Biosuper REPELLENT sustainably dries out slatted floors and beddings, also reduces the amount of water available for fermentation process. By limiting fermentations Biosuper REPELLENT also helps preventing heat strokes.

### 2 STOPS AMMONIA AND UNPLEASANT ODOURS

- Unlike clay or limestone-based products, Biosuper REPELLENT **stops ammonia emanations** and **strongly inhibits salting out effects**.
- Thanks to its ability to block ammonia and to its drying qualities, Biosuper REPELLENT also improves your working conditions : the air is drier and healthier.

### 3 SANITISES BREEDING ENVIRONMENTS

- Biosuper REPELLENT **modifies beddings' pH** and also **sanitises** by drying and by its acid properties.



3 days after the application of Biosuper REPELLENT, **only 18 % of ammoniacal nitrogen** initially contained in manure was volatilized, compared with products (composed essentially of limestone and clay) that we found on the market, **they release 50 % to 100 % of ammonia nitrogen** in the air.

Data from experiments conducted in 2010 and 2012 with Greenalia Techniques laboratory.

### Good to know!

Ammonia has very hazardous effects on living organisms. In farm structures, when ammonia concentration reaches 30ppm, it is already harmful to animals and humans. At this concentration in the air, pulmonary cilia already stop functioning.



## YOUR ALLY IN YOUR FIGHT AGAINST INSECTS

### Impact of flies and mosquitos on breeding

#### Agitated animals

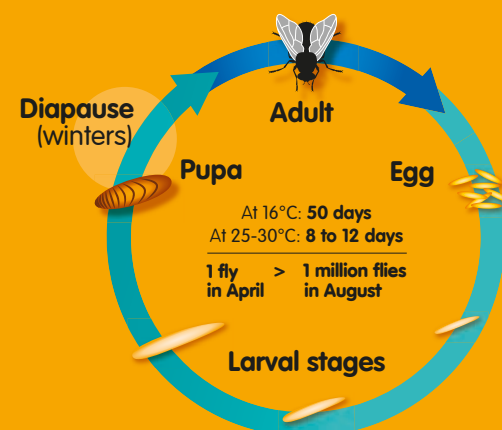
- Decrease of milk production,
- Complicated milkings,
- Disturbed feeding / loss of appetite.

#### Disease transmissions

- Salmonellosis, enterocolitis,
- Summer mastitis,
- Infectious abortions,
- Various viruses.



### What are the effects of BIOSUPER REPELLENT on flies life cycle ?



### An additional way in your preventing approach

- You have already set up many ways of fighting insects, chemical or biological controls (paintings, misters...).
- You also have some mechanical means (sticky traps, air blowers...).

Biosuper REPELLENT will be your ally to limit feeding potentials resources and egg-laying nearby silages, feed storage, milk residues...

### Action on two levels

#### 1. Drying and acidifier

With its double action (drying and acidifying effects), Biosuper REPELLENT contributes to expose insects, however growth stage (except adult stage), to an unfriendly environment.

- Winter applications** to fight any survival pupae during diapause.
- Spring & summer applications** to combat egg, larval and pupa developments.

#### 2. Repellent

Flying adults are naturally kept away from beddings and limits egg-laying. As a consequence:

**Less egg-layings** = less insects = less agitation among animals  
= less disease transmissions = **a healthier environment.**

### Repellent effect validation protocol

Insertion of flies in a tube, with at one end, a litter conditioner of common usage and on the other end Biosuper REPELLENT. After few minutes, a counting is realised at each end in order to identify the effect of Biosuper REPELLENT.



Litter powder of common usage

Biosuper Repellent

Repellent effect proved at almost 100%