

# HOW DO I USE AND SPREAD BIOSUPER EVOLUTION?

## 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 soiled bedding



Step 2

Lay the additional bedding

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



Step 1

Scrape



Step 2

Spread Biosuper

### Please note!

BIOSUPER ON BEDDING: before laying straw

BIOSUPER ON BARE GROUND: after scraping

**BIOSUPER<sup>®</sup>**  
Evolution

The first response  
to hygiene issues  
for farms

ON A DAY TO DAY LEVEL, BIOSUPER EVOLUTION  
HELPS YOU TO:

- keep **animals clean and healthy**,
- ensure that your **bedding holds up well** and also **save straw**,
- **conserve quality** when it comes to the presentation of animals, milk, meat,
- **monitor your environmental impact** (ammonia, odours, etc.),
- **treat your ground and bedding** against microbes and damp.

**BIOSUPER<sup>®</sup>**  
Evolution

is recommended to you by:



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25 YEARS EXPERIENCE  
and always improving  
performance levels



**BIOSUPER<sup>®</sup>**  
Evolution

A plus one for  
an efficient result



Hygiene powder  
for healthy  
beddings

- > DRIES GROUNDS AND AMBIENT AIR
- > NEUTRALISES AMMONIA
- > SANITISES BREEDINGS ENVIRONMENT



## WHY CHOOSE BIOSUPER EVOLUTION?

**BIOSUPER<sup>®</sup>**  
Evolution

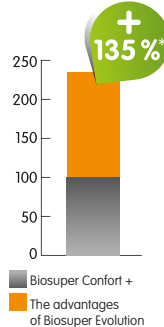
- DRIES GROUNDS AND AMBIENT AIR, STOPS FERMENTATION,
- SANITISES ANIMAL HUSBANDRY AND FARMER'S WORKING ENVIRONMENT,
- PERMANENTLY NEUTRALISES AMMONIA.

### 1 DRIES GROUNDS AND AMBIENT AIR, STOPS FERMENTATION

Moisture is the farm's enemy. It can lead to a lack of cleanliness among animals, the growth of bacteria and the onset of lameness, chapping, arthritis, etc. Colonies of microbes derived from fermentation may also be responsible for mastitis, neonatal diarrhoea and urogenital infections.

#### The solution: BIOSUPER EVOLUTION

- Thanks to its triple effect "absorption, swelling, hygroscopicity", Biosuper Evolution dries out slatted floors and bedding for good and **reduces the amount of water** available for the fermentation process. By limiting this fermentation Biosuper Evolution also helps prevent heat stroke.



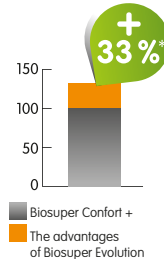
### 2 STOPS AMMONIA AND UNPLEASANT ODOURS

Animal dung and urine are responsible for ammonia emissions, which cause numerous problems for:

- **livestock:** behavioural problems, loss of production,
- **farmers:** strong or even harmful odours which make their jobs more difficult,
- **the environment:** odours which are unpleasant for the neighbourhood and detrimental to the Earth's atmosphere.

#### The solution: BIOSUPER EVOLUTION

- Unlike clay or limestone-based products, Biosuper Evolution **puts a complete stop to ammonia** and **strongly inhibits subsequent emanations**.
- Thanks to its ability to block ammonia and to its drying qualities, Biosuper Evolution **also improves your working conditions:** the air will become drier and healthier.



#### Good to know!

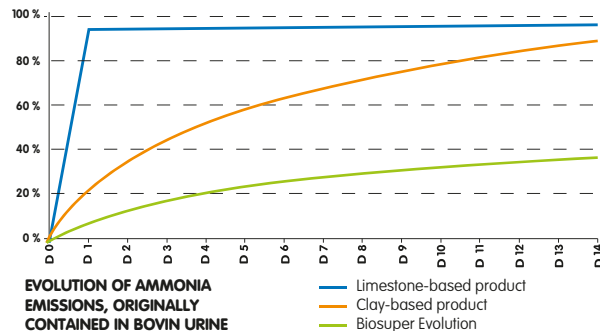
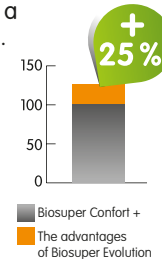
Ammonia has very hazardous effects on living organisms. In farm structures, when ammonia concentration reaches 30 ppm, it is already harmful to animals and humans. At this concentration in the air, pulmonary cilia already stop functioning.

### 3 CREATES A CLEANER FARM ENVIRONMENT

Many diseases are caused by pathogens located on the ground of farm structures or in beddings, where a favourable pH of 7 (or slightly alkaline) can be found.

#### The solution: BIOSUPER EVOLUTION

- Biosuper EVOLUTION **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.

Biosuper Evolution is also available with the option of insect repellent to keep flies, mosquitoes and other undesirable insects away from your animals.  
Ask your distributor for advice.



#### BIOSUPER<sup>®</sup> Evolution ALSO MEANS:

- A POWDER WITH GREATER COVERAGE,
- VERY LITTLE DUST (SELF-COMPACTING TREATMENT),
- A CHARACTERISTIC SMELL.

## WHAT QUANTITY SHOULD I USE?

Good to know!

approximately  
**1 = 50 g**  
handful

### 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: **100g/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**