

# BIOMIN<sup>®</sup> CleanFeed

Naturally ahead in feed preservation!



ANIMAL  
NUTRITION  
AND HEALTH

ESSENTIAL  
PRODUCTS

PERFORMANCE  
SOLUTIONS +  
BIOMIN<sup>®</sup>

PRECISION  
SERVICES



**DSM**

BRIGHT SCIENCE. BRIGHTER LIVING.

# Effect of the BIOMIN® CleanFeed

Moulds cause enormous economic losses during production, procedure, transport and storage of feeds and grains. According to the statistic of Food and Agriculture Organization (FAO), 25% of world's crop contaminated with mycotoxin yearly.

Many factors can affect mould growth, such as moisture of crops and feedstuff, relative humidity of atmosphere, temperature, transportation and storage, integrity of crops, pH value and the availability of oxygen.

Furthermore, the temperature and humidity of crops is uneven during storage and migrates, so there is an obvious variation between day and night, and this induced the higher moisture in crops for the migration and condensation of water.

Moulds consume big amounts of nutrients on the substrate, in form of carbohydrate, fat, amino acids, vitamins, minerals, etc.; and decrease the palatability of feed by changes the dietetic parameters of the feed.

BIOMIN® CleanFeed is a mould inhibitor with a unique blend of active substances for the preservation of finished feed. Due to the well balanced formulation, BIOMIN® CleanFeed provides an excellent protection against spoilage caused by moulds, yeasts and bacteria in feed.

BIOMIN® CleanFeed is used during the preservation of feed. The material to be preserved must be treated homogeneously, guaranteeing the full contact between the surface of each particle and the product.



## Benefits in the use of Biomin® CleanFeed

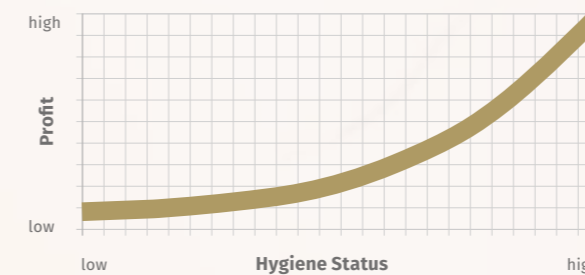
- action against Gram-negative bacteria, moulds and yeasts
- maintenance of nutritional value
- prevention of formation of mycotoxins during storage
- easy handling

## The improved feed quality leads to:

- healthier animals
- better performance
- higher profit

## Key factors in the feed preservation

### Protection against microorganisms



The high availability of nutrients in feed, combined with moisture contents favorable for mould growth, long storage periods, dirty, etc.; stimulate the growth of moulds, yeasts, and bacteria.

The degradation of nutrients by moulds causes also a lot of energy losses in exothermic reactions which liberate heat. Furthermore, they produce poisonous substances named mycotoxins which seriously affect health and performance of livestock, meaning, the losses are not only quantitative but also qualitative.

### Economic aspects in feed preservation

Preservation must guarantee an excellent hygienic status of the feed. Feed hygiene is the basis of the a good health status and productive performance. Therefore a good mould inhibitor must provide an insurance against damages caused by undesirable microorganisms and, at the same time, be costly effective. The savings in animal production due to a better feed quality pay back the use of a mould inhibitor.

## Why BIOMIN® CleanFeed?

### BIOMIN® CleanFeed is a blend of Propionic and Formic acid and their salts in an appropriated carrier

Effective and broad spectrum: Propionic acid and its salt are well known the best mould inhibitor which prevents mould growth, nutrient and energy losses and mycotoxin formation during storage. Formic acid controls above all bacteria, including *Salmonella* spp., and *E. coli*. The use of BIOMIN® CleanFeed is indicated even when the feed is heat conditioned in order to prevent recontamination.

- Fast and persistent: The volatile organic acid can kill micro-organisms quickly and organic acid salt can prolong the period of inhibition.
- Good safety: the components organic acid salts are non toxic to animal. Controlled release technology was used to organic acid in this formula and this decreased its caustic and irritant effects.

### Profitability in the use of BIOMIN® CleanFeed

Calculations done in different countries under very different economical conditions on the basis of lower animal performance due to mycotoxin and bacterial contaminations as well as nutrient and energy losses during storage show high returns on investment using this product. The cost- benefit ratio was excellent when compared to other treatments.

**BIOMIN® CleanFeed**

**... Efficient and profitable preservation!**

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For more information, contact your representative today.

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