

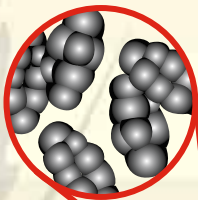
The Next Generation in Feed Safety

 Meriden

# **FUSION**<sup>®</sup>

 **MBX**

Without  
Fusion MBX



With  
Fusion MBX



Is Your Feed

# Mycotoxin Free?



[www.meriden-fusion.com](http://www.meriden-fusion.com)



**Meriden**  
ANIMAL HEALTH

## What is Fusion MBX?

It's a toxin binder, ammonia binder and anti-caking agent with a very high cation exchange capacity (CEC). It is suitable for use in all types of animal feed.

Fusion MBX contains an extremely pure form of clinoptilolite, which is a zeolite naturally formed by the devitrification of volcanic ash in lakes and marine waters.

## What does Fusion MBX do?

The main function of Fusion MBX is to bind aflatoxins. In addition it is effective at binding polar toxins such as Ergot Alkaloids, Fumonisin and Ochratoxin.

## How does Fusion MBX work?

It has selective absorption. It binds aflatoxins and ammonia efficiently and effectively whilst leaving behind the vitamins, minerals or other nutrients in the feed. This is due to what is known as cation exchange. It is this high cation exchange capacity of clinoptilolite that provides most of Fusion MBX's useful properties.

## What are the main features of Fusion MBX in comparison to standard Bentonite based binders?

- Higher cation exchange capacity
- Superior binding properties
- Extra feed pellet durability
- Additional stability during feed processing (pelleting, extrusion) and storage
- Added resistance and durability over a wide range of conditions (including pH, temperature and humidity)
- Advanced anti-caking properties and flow agent for feed

## What is the benefit of Fusion MBX's very high cation exchange capacity?

The high cation exchange capacity is the very core of Fusion MBX's mode of action, which makes it an excellent toxin binder, anti-caking and ammonia binding agent.

Fusion MBX has a low binding affinity for antibiotics, coccidiostats, vitamins, minerals, amino acids, other nutrients and feed additives, leading to less wastage, which in turn saves money.

## What are the major improvements to the quality of feed due to Fusion MBX's useful properties?

- Guaranteed higher ability to bind aflatoxins and other types of mycotoxins
- Strongly binds heavy metals such as cadmium, lead, nickel and mercury
- Improved uniform dispersion of feed ration ingredients by reducing agglomeration during mixing

## Will Fusion MBX improve the health and performance of the animals as well as their feed?

Yes, extensive research has shown that Fusion MBX:

- Improves growth rate and increases daily weight gain by improving feed conversion efficiency in all animal species
- Reduces incidences of scours, acidosis, enteritis and other gastrointestinal tract problems
- Supports proper growth and development of bone tissue and structure
- Improves egg quality in terms of internal quality, egg shell quality and results in fewer dirty eggs in commercial layers
- Boosts and strengthens the immune system to protect animals against various diseases
- Minimises the risk of secondary bacterial invaders such as *E. coli* and *Salmonella spp.*
- Acts as a rumen buffer in the digestive tract of high performance dairy cattle
- Provides high return on investment at low cost

## Is Fusion MBX free from heavy metals?

Yes, it is has a high degree of purity and is free from heavy metals.

## How can Fusion MBX contribute to a safer and healthier environment?

- High affinity for binding ammonia helps to reduce respiratory problems whilst providing superior odour control and promoting a safer and healthier environment
- Prevents wet droppings and wet litter caused by diarrhoea
- Reduces ammonia emissions and odours from litter to improve air quality
- Biodegradable and environmentally friendly upon excretion
- Non-toxic to both animals and humans



## Uses

- Mycotoxin binder and anti-caking agent for animal feeds
- Reduces ammonia levels in the animal's digestive tract and faeces
- Minimises odour

## Application

Add to mixer with other ingredients and mix homogenously.

## Compatibility

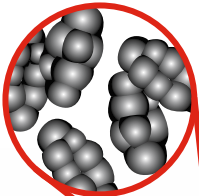
This is a feed supplement that is suitable for all types of animal feed and is compatible with all types of feed ingredients. For optimal results use in conjunction with *Orego-Stim*<sup>®</sup> powder or liquid.

## Legislation

Approved by the EU for use in the swine and poultry industries as a mycotoxin binder under the directive 70/524/EEC.

Approved by FDA for use in animal feeds as an anti-caking agent (CFR 582-2727).

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Disclaimer: The information contained in this leaflet is intended for international use and is for information only. Specific details and licensing arrangements may vary from country to country including the EU. Details of formulations, indications and applications for any particular country should be checked.

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