

M² manure magic[®]

Iowa State University study found ManureMagic[®] inhibits foam by up to 75%, enhances solids destruction by 33%.



 **DRYLET**
www.manuremagic.com

Manure treatment product ManureMagic[®] is the first commercially available foam-deterrent product that is focused on the prevention of nuisance bacteria that cause foam in swine manure pits.

“We found that treatment with ManureMagic[®] reduced solids content, methane production rate, foam stability, and resulted in an altered microbial community,” Agricultural and Biosystems Engineering Department researchers Dan Andersen and Caleb Polson wrote in the concluding statement of their study *“Evaluation of Potential Treatments to Reduce Foaming from Swine Manures.”*

The study demonstrated ManureMagic[®] performance for inhibiting foam by up to 75 percent and enhancing solids destruction by 33 percent in swine manure pits.

In 2009, Midwestern U.S. pork producers began observing a brown, viscous foam forming on the manure surface in their deep-pit storages, with significant implications for facility management and safety, the authors explain. As deep-pit storages are anaerobic environments, the breakdown of organic matter in swine manure will occur, producing biogases. When foam is present, it traps these gases, a major

safety concern for animals and farm employees. Another challenge is that the accumulation of foam can significantly reduce the volume of the manure storage, causing producers to seek alternative acres for application during untimely seasonal windows to prevent the overflow of storages.

“Drylet provides pork producers with a unique, easy-to-apply solution that addresses multiple manure storage challenges they face daily including solids build up, foam production and air quality emissions,” said Laura Pepple, an agricultural engineer with a specialty in livestock manure systems, and a member of Drylet’s Scientific Advisory Board.

ManureMagic[®] is currently being used by five of the Top 10 swine producers in the United States.

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Product Information

WHAT IS ManureMagic[®]?

ManureMagic[®] is a “dry-to-the-touch” product composed of engineered silica, a porous material, loaded with beneficial bacteria. Because of its exceptionally high density of 10^{11} cfu per gram, ManureMagic[®] effectively delivers microbial blooms leading to enhanced biosolids reduction.

HOW TO USE ManureMagic[®]?

It is easily administered by hand through the slats of a barn, or agitated into the pit, after each pumping or flush.

WHY ManureMagic[®]?

ManureMagic[®] provides an innovative, user-friendly, and eco-friendly solution to inhibit foam and reduce solids in swine manure pits.



ADDED BENEFITS:

- Significantly cheaper solids-removal alternative to the mechanical dredging of lagoons. Manure from pits and lagoons can be pumped more easily and at a cheaper cost due to increased flowability and consistency. Higher volumes of manure can be made available for agricultural use, leading to expanded lagoon capacity.
- Reduces hydrogen sulfide and odors up to 40% and 50% respectively, according to a Purdue University study. It helps keep neighbors happy throughout the year even when manure is being spread in the fields.

