

VALENS

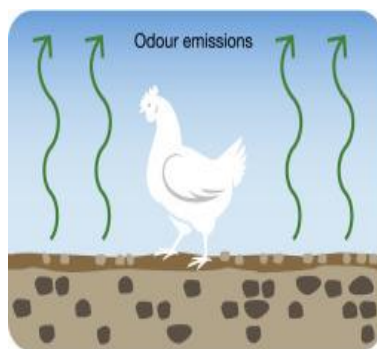
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Odor and Emission Control (spray poultry Litter Amendment)

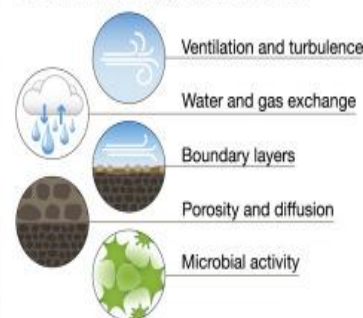
Introduction

The odor that is detected from a poultry operation is a complex mixture of gases. Most often the odor is a result of the uncontrolled anaerobic decomposition of manure. However, feed spoilage can also contribute to the odor. The odor that our noses detect can be a combination of 60 to 150 different compounds.

Some of the most important types of odor causing compounds are: volatile fatty acids, mercaptans, esters, carbonyls, aldehydes, alcohols, ammonia, and amines. In instances, the mixture is worse than any of the individual compounds. Ammonia can create strong odors near the manure storage or building



Factors influencing odour emissions



Sources of odors in and around poultry buildings include:

- wet litter from leaky water
- poultry bedding that is overloaded with manure (that is too little bedding relative to the amount of manure produced by the birds)
- wet manure below caged layer houses due to water leaks or inadequate drying by ventilation,
- Spoiled or moldy feed
- Dust from feeders and animals
- Exhaust ventilation air
- Uncovered manure piles
- Poorly managed stacking sheds
- Poorly managed or located covered manure piles
- Improper disposal of dead animals.

Valens product

- **Valens product** is considered a powerful and effective product that works to break down organic waste and remove odor-causing compounds from the source, most notably ammonia and hydrogen sulfide. It works efficiently in two forms (gaseous and substrate) in reducing volatile organic compounds (VOCs) and its results appear within minutes.
- **Valens product** does not mask odor, it rapidly accelerates the achievement of complete decomposition by denaturing odor compounds into inert, odor-free end products.
- **Valens product** can be applied via a high pressure low volume atomized mist into an odorous airstream or into a volume of air.

Solution

- Valens Company is a pioneer in the field of treating **Odor and Emission Control (Poultry Farm)**. In implementing its solutions, it relies on advanced, promising, fast, and well-established technology. It does not limit itself to mask odor but it completely eliminates it from its source. It builds in its solutions on emphasizing data, the human mind, the modernity of the machine, and alternatives to materials, and through the integration of processes, magnificent results and brilliant outputs are achieved.

Application Dosage

- 1 kg per 1,000 m²

Application Method

- Three days prior to bird placement dilute 1 kg into a minimum of 500 L of water.
- Depending on the moisture content of the litter up to 1000 L can be used to achieve optimal dispersion **Valens product**
- Let the mix activate for a minimum of 6 hours..
- Two days prior to bird placement spray onto bedding material allowing for as wide a distribution as possible. A multipurpose tank and hand held spray device is recommended.
- Re-apply as necessary.

Benefits of Valens product:

- Eliminates odors instead of mask them
- Reduces ammonia by up to 80%
- Reduces volatile organic compounds by up to 90%,
- Accelerates the process of converting waste and carcass composting by up to 30%
- Promotes healthier litter/bedding
- Reduces fly numbers by removing attractive organic materials
- Accelerates the achievement of complete decomposition by denaturing odor compounds into inert, odor-free end products.

Contact

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