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Marine Environmental Mgmt., llc

# Organic Treatment of Ammonia

Marine Environmental Has been successful in the formulation of a naturally occurring bacteria in a food grade matrix of cornstarch for the degradation of ammonia within chicken growout houses. **Micro Ultra 8104** is available in 1 pound packs with a coverage factor of 1 pound per 10,000 sq/ft, reduced ammonia levels are noticeable within hours. The technology is "Bio - Remediation".

## "What Is Bio-Remediation"



Microbe Attaches to Ammonia Particle



Microbe Releases Harmless Gases



By Product Excellent For Release Into Soil

## How does it work?

In order for microbes to clean up harmful chemicals, the right temperature, nutrients (fertilizers), and amount of oxygen must be present in the soil and groundwater. These conditions allow the microbes to grow and multiply—and eat more chemicals. When conditions are not right, microbes grow too slowly or die. Or they can create more harmful chemicals. If conditions are not right at a site, EPA works to improve them. One way they improve conditions is to pump air, nutrients, or other substances (such as molasses) underground. Sometimes microbes are added if enough aren't already there.

The right conditions for bioremediation cannot always be achieved underground. At some sites, the weather is too cold or the soil is too dense. At such sites, EPA might dig up the soil to clean it above ground where heaters and soil mixing help improve conditions. After the soil is dug up, the proper nutrients are added. Oxygen also may be added by stirring the mixture or by forcing air through it. However some microbes work better without oxygen. With the right temperature and amount of oxygen and nutrients, microbes can do their work to "bio-remediate" the harmful chemicals.

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