



BIO-ORGANIC CATALYST
THE POWER IN NATURE®

bio-organic.com

Advanced Odor Control Systems With Bio-Organic Catalyst

MAJOR TECHNOLOGY BREAKTHROUGH:

The patented Bio-Organic Catalyst (BOC) technology for odor control and solid waste treatment facilities is a breakthrough technological advancement over odor masking (essential oils), or biological agents (bacterial/enzymes).

ESTABLISHED PERFORMANCE RESULTS:

BOC odor control systems have been successfully deployed in most types of solid waste operations. Offering much superior odor reduction over any previous odor control chemistries, at a lower cost.

BROAD SPECTRUM ODOR MANAGEMENT:

BOC is effective against all the odors associated with solid waste decomposition, and offer operators with the ultimate and safest technology in eliminating odors that impact solid waste operations. Odors associated with organic wastes are caused by gases produced by the decomposition of organic matter under anaerobic conditions (without oxygen), of which the most characteristic noxious odors include: hydrogen sulfide (H₂S), Mercaptan's, Ammonia, Amines, Sulfides, and Skatole.

GREATER FLEXIBILITY FOR INSTALLATIONS:

BOC odor control systems allow tremendous flexibility to solid waste operators in designing solutions that provide complete ability to manage their odor issues throughout the multiple areas of operations; including collection (garbage trucks), transfer stations, landfills, composting, and renewable energy production.

BOC GREEN CHEMISTRY:

The BOC technology is a hybrid compound with both surface modifying and aggregating properties of surfactants, and the catalytic properties of enzymes. The BOC eliminates odors through changing the microbial ecology to a more aerobic state, rapidly oxidizing gases, and preventing their additional formation.

BOC TECHNOLOGY BACKGROUND:

Through the oxidative properties of BOC, H₂S gas, amines and mercaptan's are eliminated by oxidative reactions, and will take place in both air and water streams. One of the most important functions of BOC is the creation of microscopic sized bubbles that have extraordinary gas transfer capabilities. These provide phenomenally effect odor control at very high dilutions within water, allowing a precise adjustment to optimizing the requirements of odor elimination and promotion of higher aerobic biological conditions.

REFERENCED INSTALLATIONS:

Canada: Municipal Transfer Stations, Garbage Trucks, Colombia: Municipal and Agricultural Solid Waste, US/Florida: Municipal Solid Waste US/Orkin: Garbage dumpsters.

