

Introduction

Organic Products Company would like to introduce an exciting, novel and environmentally friendly discovery. A new, patented, technology that provides an effective and economical solution to odorous compounds, specifically a resolution to hydrogen sulfide, mercaptans and ammonia compounds, and their resulting corrosive effects.

Organic Products Company is pleased to introduce – Histosol OP-9840, a natural humate compound derived of organic matter consisting of natural beneficial soil constituents. This novel formulation was developed specifically to provide an environmentally acceptable solution to odorous biological reactions. Histosol OP-9840 was developed after nearly 10 years of extensive research and proven through field evaluations.

Histosol OP-9840 is a natural humic composition that represents unsurpassed odor control for a wide range of odorous compounds. Histosol OP-9840, in combination with biochemical active ingredients, enhances conditions in receiving waterways, wastewater systems or municipal collections systems. Histosol OP-9840 may be used in all types of applications, soil and water, and effluent streams without concern of effluent impact.

Histosol OP-9840 contains humate salts, a composition of humates, humic acids and lignin matter, as well as a wide range of essential organic based building blocks and related acids, derived from an extraction of highly humified organic materials. These compounds represent essential humic acids, fulvic and ulmic compounds, many of which have their counter parts in all biological tissues. **These essential life structural components are known to enhance biological performances** (plant and biological), as well as targeting the capture of odorous gaseous reactions and interrupting their subsequent corrosive by products.

How it works – Histosol OP-9840 contains highly active “reactive lignins” with 7 to 9 carbon and oxygen open bonding sites per molecule. The complexed lignin reactive surface structure is estimated at 900,000 square meters per kilogram and an enormous negative cation exchange capacity of 1500 to 3000 moles per kilogram. These active sites function as a macromolecular sponge, adsorbing and binding (capturing) potentially odorous compounds and reacted compounds.

The captured compounds form covalent and trivalent chemically bonded, cross-linked polymers. These “captured, adsorbed compounds” are inaccessible for microorganisms to hydrolyze, blocking sulfate reactions, and eliminating odorous gaseous reactions and gaseous productions.

Histosol OP-9840’s lignin components are so reactive that they can adsorb approximately 1000 times their own mass in potential gaseous and pollutant compounds. The lignin’s highly reactive structure provides a cost effective, environmentally friendly solution to pollution, odor control and corrosion. **Histosol OP-9840 has proven in numerous field applications to significantly stimulate indigenous biological activity, resulting in tremendous increases in solids degradation and higher yields of clear water decanting.** Our Histosol OP-Bio Series is a patent-pending blend of Histosol OP-9840 and selectively adapted microorganisms that dramatically increases the degradation rate of organic solids.

Benefits

- Rapid odor reaction, results may be obtained on contact, or within 12 to 48 hours of application – eliminates 30, 60, or even 90 day trial periods for large systems.
- Eliminates the release of hydrogen sulfide and related corrosion.
- Significantly increases the degradation of organic solids, reduces BOD, and TSS.
- Economical and cost effective, low PPM rate requirements, some application rates as low as 2 PPM.
- Stimulates and enhances microbial populations, beneficial to receiving water systems.

We invite you to review the attached information on our Histosol product line. For additional information, please see our temporary web-site at www.organic-pro.com, or call toll free at 888-314-8181. We look forward to your inquiries on our line.

Always at your service,

Jerry Phillips
VP - Operations