



“Solving Environmental Problems With Natural Products”

Product Data HISTOSOL OP-9840

DESCRIPTION:

HISTOSOL OP-9840 is a liquid blend extract from naturally occurring organic materials. Histosol is a natural humate compound derived from highly humified organic material consisting natural soil constituents. This novel formulation was developed specifically to provide an environmentally acceptable solution to odorous biological reactions. Histosol was developed after nearly 10 years of extensive research. This blend has been found to have remarkable properties in odor and corrosion control, stimulating indigenous microbial activity, and wastewater clarification.

Histosol is a natural humic composition that represents unsurpassed odor control for a wide range of odorous compounds. Histosol enhances and stimulates indigenous microbial populations in receiving waterways, dramatically improving waste degradation.

Histosol 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 material. These compounds represent essential acids and compounds, many of which have their counterparts in all biological tissues.

FEATURES AND 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
- Eliminates the release of hydrogen sulfide related corrosion
- Economical and cost effective with low PPM rate requirements
- Non-pollutant, non-corrosive, natural solution
- Stimulates and enhances microbial populations, beneficial to receiving water systems
- Pricing targets competitive advantage

Histosol OP-9840

Typical Characteristics

| | |
|------------------------|-------------------------|
| Appearance | Dark brown/black liquid |
| Total % solids | 7.5 (range 7.0-8.5) |
| Specific Gravity | 1.04 |
| pH (as shipped) | 8.00 (range 7.5-8.85) |
| Odor | Earthy smell |
| Cadmium | 0.0 |
| Cu | 0.0 |
| Iron | <5.0 mg/L |
| Zn | <0.5 mg/L |

Standard Packaging: 5-250 gallon containers

Optimum Conditions for Use

Histosol performs within a pH range of 3.0 to 11.6 with the optimum near pH 7.0. Effective temperature range is 40 to 145 F.

Storage and Handling

No special handling precautions. Should be protected against long periods of frost or freezing, thaw out before using. Suggested maximum in plant storage is 12 months.

Application

HISTOSOL OP-9840 can be used to control odors from sewage plants, waste collection facilities, paper mills, and rendering operations. In wastewater systems, it reacts with hydrogen sulfide, sulfur dioxide and most organic acids to permanently neutralize the chemical and its odor. 2-30 parts per million is sufficient in most cases for odor control. The product should be metered into the system of continuous flow streams at least 100 yards ahead of the point of H₂S release. The product can be metered directly into waste lagoons, aeration basins, digesters, clarifiers, or SBR's. Longer retention improves performance.

It has been found effective in removing hydrogen sulfide and TRS gases from paper mill scrubber systems. The HISTOSOL should be added to the circulating or make-up at the gas inlet of the scrubber. Tests in the circulation water show neutralization of the sulfides. Tests in the gas stream show a reduction 76%.

This is a non-toxic and non-hazardous product. Environmental friendly.

**CHEMTECH INTERNATIONAL INC.
P.O. Box 951 Media, Pennsylvania 19603
Tel. # 610-566-7177
Fax. # 610-566-9198
www.chemtech-usa.com**