



HUMA PRO[®] 16

Enhancing Nature's Science

Guaranteed Analysis

Total Humic Acid (HA)16.00%*
**Analysis using the Colorimetric Method*

Other Analysis Methods

Total Humic Acid (HA)10.00%*
**Analysis using the CDFM Method*

Total Humic Acid (HA)10.00%*
**Analysis using the HPTA or ISO 19822 Method*

Derived From:

Oxidized Leonardite.

Physical Properties:

Form: Liquid
 Appearance: Dark black, brown having no characteristic odor.
 Weight: 9.01 lb/gal, 1.10 kg/L
 pH: 11.0–12.0

Caution:

Keep out of reach of children.

Harmful if swallowed.

The liquid and mists may be irritating to the eyes and skin. Inhalation of mists may be irritating to the entire respiratory tract. Ingestion of this product may cause gastrointestinal irritation.

Storage and Disposal:

Keep product in original container. Do not transfer into food or drink containers. Triple rinse when empty for recycling. Always dispose of container in accordance with local, state, and/or federal regulations. Do not store this product below 50°F (10°C) or above 90°F (30°C).

Conditions of Sale:

The information contained in this bulletin is believed to be accurate and reliable. Buyer and user acknowledge and assume all liability resulting from the use of this material. Follow directions carefully. Timing, method of application, weather, soil and water conditions, and other factors are beyond the control of the seller.

The Humic Acid Solution for Carbon Deficiency

HUMA PRO[®] 16 complexed with Micro Carbon Technology[®] (MCT) is an activated liquid humic acid carbon source derived from a highly oxidized, naturally occurring carbon and mineral deposit. For wastewater treatment systems lacking sufficient carbon, HUMA PRO[®] 16 stimulates and maintains microbial growth. For the treatment of unbalanced soil conditions caused by the lack of available carbon, HUMA PRO[®] 16 promotes microbial growth for a healthier soil. This product is non-toxic, concentrated, and easy to use.

Benefits of Use In Water:

- Acts as a carbon source and stimulant for microbes
- Used in bioremediation to help reclaim polluted water
- Affects physical and chemical properties to improve biomass stability

Benefits of Use In Soil:

- Acts as a soil conditioner and improves soil structure
- Acts as a carbon source and stimulant for microbial colonies
- Used in agriculture to help achieve soil sustainability
- Affects physical and chemical properties to improve soil fertility by providing a storage system for carbon, water, and minerals

Deficiency Symptoms—When to Apply:

- Wastewater Treatment Systems experiencing low food-to-mass ratios
- Wastewater Treatment Systems with excess nitrogen
- Soils contaminated with nitrogen, phosphorous, herbicides, or pesticides
- Soils with low available carbon content

Application Instructions:

HUMA PRO[®] 16 should be applied when a water or soil analysis identifies the need for this product. It can be applied in combination with compatible liquid nutrient mixes. If compatibility is in question, jar test a small quantity. Do not apply this product in concentrations greater than 10% in soil applications. Applications in soil can be made as often as every 14 to 28 days as needed. Soil moisture is required for maximum bioactivity. If soil is dry, moisture should be provided by irrigation. This product is intended as a supplement to wastewater and soil and will not, by itself, provide all the nutrients normally required by soil and wastewater microbes.

| METHOD OF APPLICATION | SUGGESTED RATE FREQUENCY OF APPLICATION |
|-----------------------|--|
| Soil | Up to 4 gallons per acre (40 L/ha) by aerial or ground spray Every 2 to 4 weeks until contaminant is reduced |
| Water | By spray application or injected at water inlet, dose based on water analysis of carbon deficiency Apply continuously based on flow |



**This Product Contains Micro Carbon Technology[®] (MCT), a proprietary blend of very small organic molecules that allow for more effective absorption of nutrients by microorganisms.*