



# TECHNICAL DATA SHEET

Product Name / Trade Name: Humic Acid Liquid 12%

Raw Material (Derived from): Sub-bituminous Humate (Leonardite Humate)

Manufacturing Process: Sub-bituminous humate → Proprietary alkali liquid extraction in agitation tank → initial screening to separate insoluble material from liquid humic concentrate → Additional filtration & screening → Bottling → Quality control testing

Composition / Analysis: **Humic Acid Content:** Colorimetric method – 12%  
Precipitation method – 6%

**Organic Matter:** 3%  
**pH:** 8-9

Product	Nitrogen % N	Available % P <sub>2</sub> O <sub>5</sub>	Potash % K <sub>2</sub> O	Calcium % Ca	Magnesium % Mg	Copper % Cu	Zinc % Zn	Iron % Fe	Boron % B
Liquid 12	0.2%	<0.01%	2%	0.10%	0.02%	0.001%	0.001%	0.03%	0.01%

Harmful ingredients: None

Finished product: Black Liquid

Mixing instructions / reconstitution:

- 1) Mix 1 gallon Humic Liquid 12% Concentrate into 25 gallons of water.
- 2) Agitate to mix with water thoroughly.
- 3) Apply the diluted solution to soil in fall or early spring and as many as 4 applications per grow season.

Application rate: Agronomic Crops – 2.5 - 5 gallons Humic Liquid 12% Concentrate per acre. \*approximately 60 - 125 total gallons after dilution 25x.

Turf – 5 gallons Humic Liquid 12% Concentrate per acre. \*approximately 125 total gallons after dilution 25x.

Storage: Store in a cool with temperature above freezing.