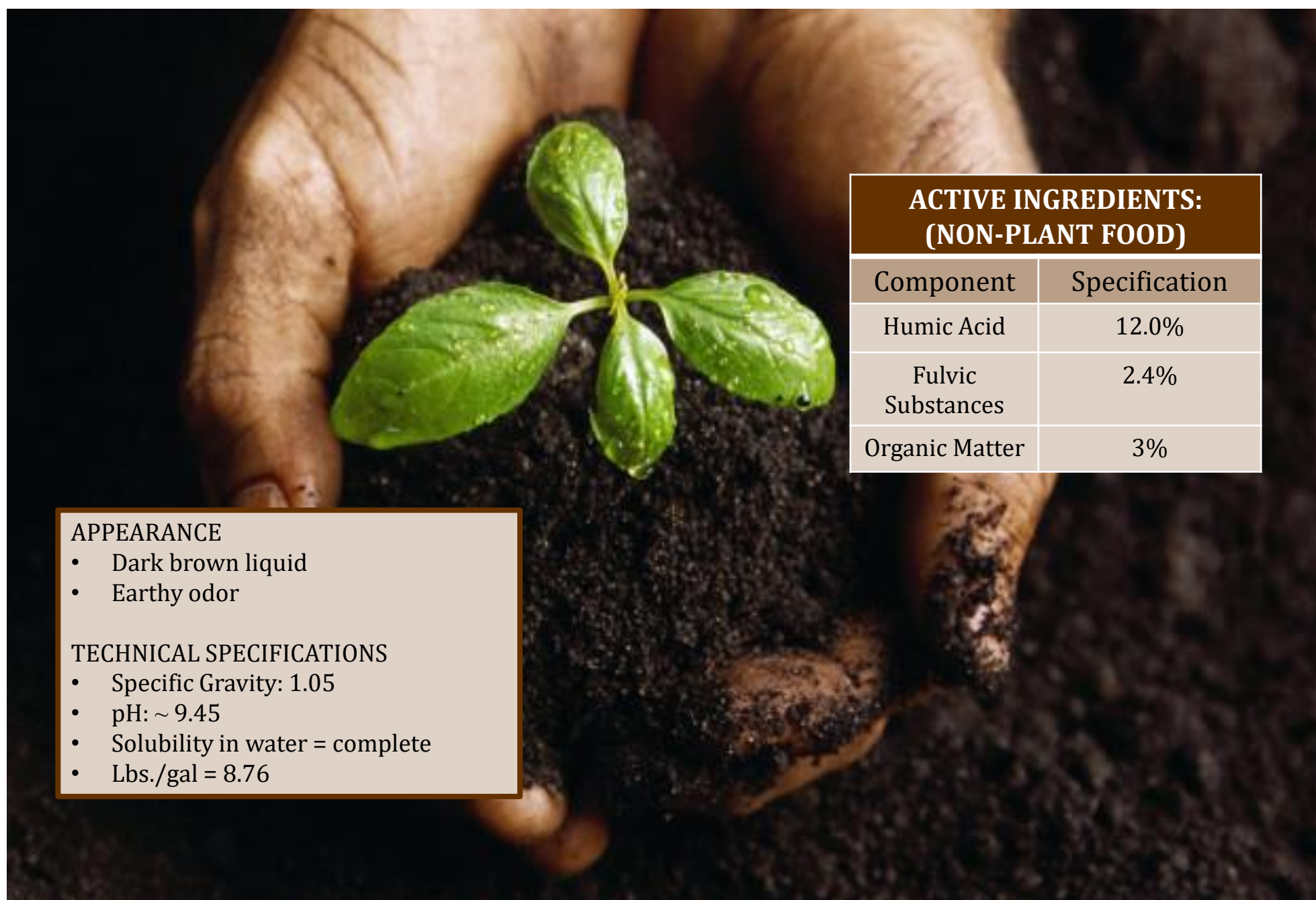


TECHNICAL DATA SHEET

Humic 12 12% Humic Acid Concentrate

PRODUCT DESCRIPTION

Humic 12 works as a complexing agent when coupled with trace elements. It helps unlock nutrients, making them more available to the plant. It increases the cation exchange capacity at the root zone, increasing the permeability of the plant membranes and uptake of nutrition. It also works as a soil conditioner, enabling healthy microbes and improving seed germination and root development.



ACTIVE INGREDIENTS: (NON-PLANT FOOD)

Component	Specification
Humic Acid	12.0%
Fulvic Substances	2.4%
Organic Matter	3%

APPEARANCE

- Dark brown liquid
- Earthy odor

TECHNICAL SPECIFICATIONS

- Specific Gravity: 1.05
- pH: ~ 9.45
- Solubility in water = complete
- Lbs./gal = 8.76



Important Notice Regarding the Attached Information:

The statements, technical information and recommendations contained in the accompanying document(s) are based on tests and data that are believed to be reliable. Further, as the actual use of our products by others is beyond our control, no guarantee of any kind is made as to the effects or such use, or the results to be obtained, whether the use is made in accordance with the recommendations or suggestions contained herein or otherwise. The accompanying document(s) is not contractual and NOTHING HEREIN CONSTITUTES A REPRESENTATION OR WARRANTY THAT THE GOODS DESCRIBED ARE FIT FOR THE PARTICULAR PURPOSE OF A CUSTOMER or that their use does not conflict with any existing patent rights. The exclusive source of any warranty and of any other customer rights whatsoever is on the invoice. Also, since the accompanying data sheet(s) may be provided by electronic media, we cannot guarantee the accuracy or originality hereof. Any alterations made to the accompanying document(s) other than by corporate headquarters is expressly prohibited.

RATES AND DIRECTIONS

Humic 12 12% Humic Acid Concentrate

GENERAL INFORMATION

Humic 12 is a concentrated source of humic acids containing 12% humic acid (by weight). This humic acid is derived from high-quality Leonhardite. Humic acids are not plant food. **Humic 12** may increase the availability of micronutrients and stimulate soil life. Whenever possible, **Humic 12** should be applied in several smaller-dose applications rather than on larger-dose application. **Humic 12** may be applied directly to the soil or used with foliar fertilizers.

Humic 12 may be applied to all turf and planting beds at any time of the growing season. This product is readily dispersed in most fertilizer or micronutrient products. Avoid using this product with acids and oxidizers. This product is a weak alkaline solution and may alter the pH of certain solutions. A weak acid may be used to reduce the pH of the spray solution. This product may be applied with various irrigation water systems.

DIRECTIONS FOR USE

SHAKE WELL! The mixed product should be agitated prior to and during application. **To reduce risk of incompatibility, follow this sequence of mixing:** 1) Water, 2) **Humic 12**, 3) Fertilizer.

Caution: Apply to only to turf, plants and soils. If plants are flowering, apply to base of the pant to avoid staining of blooms. This product may stain concrete, wood and other pervious and impervious surfaces.

SOIL APPLICATIONS: For direct soil applications, apply 1 to 6.5 gallons of **Humic 12** per acre per application. Apply prior to germination and follow-up with soil applications every 4 to 6 weeks during the growing season.

IRRIGATION APPLICATIONS: For irrigation applications, apply 1 to 6.5 gallons of **Humic 12** per acre per application. Applications may be made every 4 to 6 weeks during the growing season. The optimal concentration of 1 ounce of **Humic 12** per 10 gallons of irrigation water.

FOLIAR APPLICATIONS: If used with foliar solutions, apply 16 to 32 ounces of **Humic 12** per acre. The spray concentration should range between 1 ounce of **Humic 12** per 1 gallon of spray and 1 ounce of **Humic 12** per 20 gallons of spray. The optimal concentration is 1 ounce of **Humic 12** per 10 gallons of spray. If use in conjunction with any herbicide, insecticide, or fungicide, always use 1 ounce of **Humic 12** per 10 gallons of spray, regardless of the total spray volume used or the total amount of **Humic 12** that will be delivered per acre.

COMPOST TEAS (AS FUNGAL FOOD): Pre-activation: If you are pre-activating the compost tea ingredients, use 2.5 oz. of **Humic 12** blended into the amount of ingredients you use per 25 gallons of tea brew. **During brewing:** At the beginning of the brew cycle, add 12 oz. of **Humic 12** per 25 gallons of tea solution.

