

NutraHume™

Environmentally responsible.
Plant friendly.

The next generation of Nitrogen.

Nitrogen is a necessary agricultural input. But it is estimated that 25-50% of nitrogen is lost due to volatilization and leaching. Introducing NutraHume™, a patent-pending technology combining non-cationic Active Humics with 23% buffered and stabilized nitrogen.

How does NutraHume work? OrganoCat's proprietary process technology creates an adduct* with the nano-sized, non-ionic humic substances and nitrogen creating a distinct three-dimensional molecule. The powerful humics help to stabilize and buffer the nitrogen as it goes through the conventional nitrogen cycle in soil, reducing typical loss and damage to soil organic and mineral matter and environmental pollution.

NutraHume is an effective nitrogen fertilizer, bio stimulant, soil conditioner and ameliorant. It can be used for foliar spray and irrigation water injection. NutraHume is biologically, geologically, and chemically active, stimulating both plants and soil microbiology. Need to overcome nitrogen deficiency in your plants quickly? NutraHume can help eliminate nitrogen deficiency as a foliar spray without significant leaf burn or stress.

**Adduct - The combining of molecules A & B to form a new molecule AB with no loss of atoms.*

The Superior Product:

- **Enviro-Safe:** buffered and stabilized to protect soil and water from nitrogen leaching and the atmosphere from emission of ammonia and nitrous oxides
- **Plant-Safe:** Buffered for less leaf burn
- **Purity:** Won't clog nozzles
- **Active:** Designed for optimum bio, geo and chemical activity
- **Flexible:** Designed for rapid nitrogen deficiency elimination at optimum bio, geo and chemical activity
- **Effective:** Across all soil and plant types



Agricultural benefits include:

SOIL

- Converts clay and sandy soil to aggregated soil type
- Increased soil water holding capacity
- Increased bio-activity from native microbes and suppressed pathogens
- Reduced soil compaction

Contents

Organic content:

- Approximately 5% Non-ionic humic and fulvic acids

Mineral content:

- Nitrogen (amino): 23%

Properties

- **Physical state:** Liquid
- **Color:** Black, brown
- **Odor:** Low, light earthy, slight ammonia
- **pH:** 5.5 - 7
- **Specific gravity:** 1.14 - 1.18 gr/cm³
- **Freeze Point:** 0°C (32°F)
- **Boiling Point:** 100°C (212°F)

Compatibility

This is a nonionic solution, which is miscible with water in any ratio. Can be tank-mixed with most liquid fertilizers, pesticides and herbicides. Mix testing recommended before application of product with other products.

Application

- Applications: Soil, foliar, on seed, with liquid fertilizers, herbicides and pesticides
- Application rates: Soil and foliar: 0.5-1.0 gallons mixed with 60 gallons of water gallons/acre; 5-10 liters mixed with 568 liters of water per hectare. May be applied full-strength as foliar spray: 30 gallons/acre.

PLANTS

- Increased nitrogen utilization (slow release resulting in less leaching and volatilization)
- Reduced salt toxicity impact
- Increased sugar, starch, oil and protein
- Increased nitrogen uptake through foliar spray without leaf burn
- Improved crop yield potential
- Increased sugar, starch, oil and protein in produce
- Increased stability under drought and freeze conditions

To learn more about this product,
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