



BIO GENESIS® II

Enhancing Nature's Science

Product Characteristics

Nutrients Derived From:

Urea Nitrogen, Iron EDTA, Manganese EDTA, and Zinc EDTA. Chelating agents are Hydroxyethylenediaminetriacetate and Ethylenediaminetetraacetate.

Physical Properties:

Form: Liquid
 Appearance: Hazy brown, having a characteristic odor.
 Weight: 9.07 lb/gal, 1.09 kg/L
 pH: 8.0–9.0

Freezing Point: 32°F, 0°C

Additional Contents:

Micro Carbon Technology®

Caution:

Keep out of reach of children.
 Harmful if swallowed.

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.

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, and other factors are beyond the control of the seller.

Solution for Wastewater Settling, Filamentous Bacteria, Turbidity, Phosphorus Impacts, and Power Consumption

Probiotic Solutions® BIO GENESIS® II is a formulation of nutrients, organic acids, natural biological stimulants, and energy systems that balance the natural microbial ecosystem to increase bio-oxidation capacity in activated sludge systems. The product naturally stimulates the uptake of phosphorus in systems impacted by high phosphorus influent. BIO GENESIS® II reduces operating costs by lowering BOD/COD and improving settleability while controlling filamentous bacteria and reducing FOG.

Activated Sludge Systems:

BIO GENESIS® II stimulates the activity of beneficial bacteria in activated sludge systems, improving overall operational stability. This reduces the BOD/COD and stabilizes the oxygen ratio in wastewater. BIO GENESIS® II complexes with ions in the water to increase availability of previously blocked key nutrients. BIO GENESIS® II must be used in a rotation program with BIO GENESIS®, alternating every 2 to 3 weeks.

Benefits of Use:

- Improves flocculation and settleability
- Improves SVI
- Increases dissolved oxygen levels
- Decreases mechanical aeration and energy costs
- Reduces noxious odors
- Reduces coagulant and flocculant chemical use and costs
- Minimizes upsets
- Reduces chlorine disinfection demands
- Reduces filamentous bulking, foaming, and scum
- Reduces wasting, sludge volume, and out-of-service time
- Improves effluent water quality
- Potentially reduces the impact of high phosphorus influent

Application Instructions:

SHAKE WELL BEFORE USING. Contents are highly concentrated and can be applied directly into the flow or should be diluted with water in a ratio of 5 parts water to 1 part product prior to surface application. See table below for specific rate instructions.

METHOD OF APPLICATION	RATE PER APPLICATION
Aeration Basins, Digesters, Oxidation Ditches	Up to 10 ppm for initial phase. Up to 5 ppm for maintenance.

NOTE: BIO GENESIS® II must be used in a rotation program with BIO GENESIS®, alternating every 2 to 3 weeks.



Powered by
**MICRO CARBON
 TECHNOLOGY**

**This Product Contains Micro Carbon Technology®, a proprietary blend of very small organic molecules that allows for more effective absorption of nutrients by plants.*