



**BIO-ORGANIC CATALYST**  
THE POWER IN NATURE®

# AD-CAT™

## BIO-CATALYTIC TREATMENT FOR ANAEROBIC DIGESTION



**AD-Cat™** is a broad-spectrum bio-catalytic formulation that improves the overall performance of Anaerobic Digestion (AD) systems.

**AD-Cat™** works by solubilizing the waste components, thereby decreasing viscosity, and allowing the waste stream to be better utilized by the microorganisms within AD systems.

**AD-Cat™** will help prevent insoluble waste components from forming floating layers, or internal blockages, within the AD system.

**AD-Cat™** allows more consistent bio-methane yields to be produced, and optimize waste stream loadings into the AD system.

- AD-Cat™** offers the following benefits to operators:
- Improves AD loading of insoluble waste components.
  - Solves formation of blockages with AD systems.
  - Improves economic performance of AD systems.
  - Supports more complete digestion conversion rates.
  - Offers higher quality bio-methane yields.

**AD-Cat™** is an essential tool for managing optimal AD system operations.



### SEAL OF SAFETY

*The Bio-Organic Seal of Safety is our commitment to offering the highest bio-aquatic safety on the market today.*

### DIRECTIONS FOR USE

**AD-Cat™** can be injected into water lines, aeration devices, and sludge lines. Dosage rates will vary depending on numerous factors, including organic loading levels, and specific operator objectives.

#### Aerobic Wastewater Treatment:

1 ppm **EcoSystem Plus®** per 100 BOD in organic loading is the basic metric used. In deployment, dissolved oxygen (DO) readings will guide dosing rate. Operator will adjust dosage rate to desired DO level.

**Anaerobic Digestion:** The basic dosage metric is: 250 ml up to 1,000 ml, per dry ton of Volatile Solids (VS).

*Consult with technical specialist to optimize installation and performance of **AD-Cat™**.*

### PRODUCT SPECIFICATIONS

**AD-Cat™** is non-toxic, non-caustic, and safe to handle, with a recommended shelf life of two years. May be stored with confidence at temperatures below 122°F/50°C.

### CONTENTS

Water, highly purified bio-organic catalysts from plant and mineral sources, non-ionic surfactants.

### CAUTION

Keep out of the reach of children. If product from this container splashes in eyes, rinse well with water.

#### Information on Basic Physical and Chemical Properties

<b>Appearance</b>	Liquid
<b>Physical State</b>	Colorless - pale amber
<b>Color</b>	Mild
<b>Odor</b>	Full Strength Concentrate 3.9 – 4.3
<b>pH</b>	At recommended use dilutions, pH ranges 6.3 to 6.9
<b>Freezing Point</b>	See Pour Point
<b>Boiling Point (760 mmHg)</b>	> 100 °C at 760 mmHg Calculated
<b>Flash Point</b>	ASTM D 93 Closed Cup >93oC
<b>Density (water = 1)</b>	1.002 @ 20°C / 20°C
<b>Water Solubility</b>	100% in water
<b>Kinematic Viscosity</b>	@ 40oC 2.3373 cst
<b>Pour Point</b>	2.22°C or (+28°F)

#### Environmental fate: Persistence and Degradability:

The material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

#### AD-CAT™

MANUFACTURED IN THE USA UNDER  
DOMESTIC AND INTERNATIONAL PATENTS

[bio-organic.com](http://bio-organic.com)