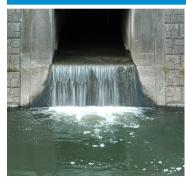




# **BIO-CATALYTIC TREATMENT SOLID & LIQUID WASTES**









**Eco-Cat™** is a bio-catalyst that provides a highly effective solution to treat fats, oils, and greases (FOGs) and hazardous odors (VOCs) within wastewater treatment and collection systems, sludge and residuals handling and dewatering.

**Eco-Cat™** solubilizes fats, oils and greases (FOGs) through the breaking of ester molecular bonds, making these waste components more available to a system's microorganisms as a carbon food source.

**Eco-Cat™** increases oxygen transfer and dissolved oxygen (DO) levels in the water column and improves the ability of the wastewater treatment system to reduce organic loadings.

- Eliminates hazardous gases (VOCs) and noxious odors.
- Rapidly solubilizes fats, oils, and greases (FOGs).
- Increases dissolved oxygen (DO) in sewer lines and lagoons.
- Provides superior breakdown of insoluble wastes.
- Completely safe to personnel.

**Eco-Cat™** provides an immediate elimination of the strongest odors, including hydrogen sulfide ( $H_2S$ ) and, most importantly, will shift the biological conditions that produce odors.

## Official UK and European Distributor

Alps Ecoscience UK Ltd The Metro Centre, 5 Toutley Rd, Wokingham, RG41 1QN +44 118 9892 444



# SEAL OF SAFETY™

The Bio-Organic Seal of Safety<sup>TM</sup> is our trademark declaration of our commitment to offering green biocatalytic solutions that shift the treatment of our water resources to a more sustainable ecological model.

## **DIRECTIONS FOR USE**

**Metered Pumps:** High-flow collection systems, injected, or sprayed at rates of 2 − 5 ppm of **Eco-Cat<sup>™</sup>**, and up to 10 ppm of **Eco-Cat<sup>™</sup>** in low-flow conditions. Consultation with technical specialist recommended to optimize installations.

**Power Washers/Hoses:** 1 oz. of **Eco-Cat™** to 1 gallon (3.78 liters) of water. 1 oz. of **Eco-Cat™** to 1 quart (1 liter) of water.

#### PRODUCT SPECIFICATIONS

**Eco-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 yeast extracts, 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

Appearance

Physical State Liquid

Colorless - pale amber

Odor Mild

**pH** Full Strength Concentrate 3.9 – 4.3

At recommended use dilutions, pH ranges

6.3 to 6.9

**Freezing Point** See Pour Point

Boiling Point (760 mmHg) > 100 °C at 760 mmHg Calculated Flash Point ASTM D 93 Closed Cup >93oC

 Density (water = 1)
 1.002 @ 20°C / 20°C

 Water Solubility
 100% in water

 Kinematic Viscosity
 @ 40oC 2.3373 cst

 Pour Point
 2.22°C or (+28°F)

## **Environmental fate: Persistence and Degradability:**

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

# ECO-CAT™

MANUFACTURED IN THE USA UNDER DOMESTIC AND INTERNATIONAL PATENTS

bio-organic.com