

MICROZYME™ POND TREAT

MICROBIAL POND TREATMENT PRODUCT

DESCRIPTION	Microzyme™ Pond Treat is a dry blend of naturally-occurring, scientifically selected (but not genetically manipulated) microbes and nutrients formulated to accelerate decomposition and digestion of the biomass (sludge) and to consume excess nutrients including nitrates and phosphates. Ecological imbalances and bottom sludge result from an influx of fallen leaves, fish and bird wastes, and 'non-point' pollutant organic and inorganic nutrient runoff from the surrounding watershed. Microzyme™ Pond Treat is a blend of about twelve select facultatively anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. The microbes in Microzyme™ Pond Treat are strictly saprophytic, that is, they only digest non-living, organic, and inorganic materials. Therefore, Microzyme™ Pond Treat will not affect any living things that are in the pond. Use of Microzyme Pond Treat™ restores pond aesthetics and ecological balance and thereby greatly reduces the need for mechanical dredging and treatment with harmful chemicals.
PROPERTIES	Microzyme™ Pond Treat microbial cultures actively grow at temperatures of 20-45° C (68-113 °F) and produce various enzymes needed for bottom sludge digestion, including: (1) Amylase to digest starch, (2) Protease to digest proteins, (3) Cellulase to digest cellulose, (4) Ligninase to break down lignin, (5) Xylanase to break down xylan, (6) Pectinase to degrade pectin, (7) Lipase to degrade animal fat, and (8) Keratinase to digest wool and hair substrates. These are saprophytic organisms which thrive on non-living organic and inorganic matter such as fallen leaves, fertilizer and watershed runoff, including farm, commercial, industrial and household 'non-point' source pollutants. They also grow well under wide temperature and pH (4.5-8.5 pH) conditions, prevalent in most lakes, ponds, and wastewater lagoons.
ACTIVITY	The standard viable microbial count is about 2 Billion CFU/gram, or about 900 Billion CFU/lb. Custom formulations can be produced with higher counts for particular applications and formulations.
APPLICATIONS	Ponds, lake coves and inlets, canals and waterways.
STORAGE	Microzyme™ Pond Treat should be stored between 10°- 30°C (50°-86°F). For best retention of initial quality, storage in a cool dry place is recommended. Avoid prolonged exposure to higher temperatures and/or humidity.
PACKAGING	Microzyme™ Pond Treat is available in bulk, or pre-packaged water soluble pouches for direct professional use/application.

Disclaimer:

Nothing disclosed above is to be construed as a recommendation to use our products in violation of any patents or regulations. The information presented above is believed to be accurate. However, said information and products are offered without warranty or guarantee including composition and purity stated herein. Since the ultimate conditions of use and the variability of the material treated are beyond our control, liability claims may not exceed purchase price of product.