

## **BIO-SYSTEMS ONE** DESCRIPTION

**BIO-SYSTEMS ONE** contains a specially formulated range of adapted high-performance microorganisms developed for use in the biological wastewater treatment of greases, fats and oils.

When used as directed **BIO-SYSTEMS ONE** is safe. It is harmless to people, clothing and the environment and is completely biodegradable.

When applied to effluent treatment facilities, **BIO-SYSTEMS ONE** assists in:

- helping to establish a biomass capable of handling these difficult wastes.
  
- Reducing the accumulation of unsightly deposits of grease and fat.
  
- increasing the efficiency of overloaded treatment systems.
  
- preventing the blocking, ponding and possible collapse of filter-bed media.
  
- significantly reducing odor problems.
  
- enhancing BOD and COD removal while improving sludge settlement.

## **EFFECT**

The range of microorganisms contained in **BIO-SYSTEMS** consists of aerobic and facultative anaerobic bacteria. Selected from their natural environment, these bacteria have been adapted to give optimum performance in degrading greases, fats and oils by providing the normal mechanism for the selection of the biomass population with the opportunity to change its make-up in a manner not usually available.

## **APPLICATIONS**

Typical uses of **BIO-SYSTEMS ONE** include:

- start-up of aerobic biological treatment systems handling wastewaters from milk, processing, cheese-making and food processing.
  
- removal of grease deposits and prevention of scum formation in holding tanks, sewers, drains and aeration basins.
  
- acceleration of the biological degradation of wastewaters containing high levels of fats, greases and oils.
  
- reduction in the unpleasant odors often associated with treatment plants handling fatty, wastes.

In addition to the bacterial element of **BIO-SYSTEMS ONE**, a number of free enzymes are present within the product. The presence of a complex of cellulase, hemicellulases, amylases and lipases, in conjunction with the bacteria, provides the capacity to degrade extra cellular polymers, (which cause foaming), and suppress the growth of the filamentous organisms by affecting the structure of the filaments.

## **PRODUCT SPECIFICATION**

Form: Free flowing granular powder.  
Color: Buff to brown.  
Specific Gravity: 0.5 to 0.7  
Contents: Adapted and mutated microorganisms and growth stimulants, broad spectrum enzyme systems, surface tension depressants and penetrants.

S.P.C. (Nominal) 1 x 10 exp 9/grm

## **PACKAGING**

## **BIO-SYSTEMS**

### **DISCLAIMER**

The information presented in this Data Sheet is believed to be accurate and reliable. This information is presented as representative only and there are no warranties, express or implied, as to performance. Since neither distributor nor manufacturer has any control over storage, handling or application conditions, neither distributor nor manufacturer shall be liable for Loss or damage of any kind whatsoever arising directly or indirectly from the storage, handling, application or use of the products described.