



BEAVERTM

Bea Munch Water Treatment

Product Description

Designed to provide accelerated degradation of organic compounds which are extremely difficult to degrade, such as fats, oils, grease, protein, starch and carbohydrates. In addition, Bea Munch Water Treatment assists in stabilizing biotreatment systems that are more prone to experience periodic shocks from high levels of soluble organic contaminants.

Bea Munch Water Treatment is a mixture of highly active and extremely specialized spores and microorganisms that biologically break down and digest greases, fats, oils, proteins, starch, carbohydrates, and a wide range of organic materials. The various strains of bacteria were selected according to each strain's superior enzyme production. Rapid production of lipase, protease, amylase and cellulase enzymes accelerate degradation of organic material. Bea Munch Water Treatment reduces and degrades organic solids to liquids and ultimately to water and carbon dioxide. It also reduces BOD and COD levels in any wastewater.

Bea Munch Water Treatment is used in waste water or sewage treatment plants of any size, such as lagoons, clarification ponds, sludge digesters, pump stations and lift stations, grease traps, septic tanks, drain fields, latrines, and other contamination where every type of organic material may be degraded. It continuously reduces organic loading of septic systems, drain fields and cesspools and improves biological stability in any process at the same time eliminating foul odors due to organic build-up.

Benefits

- Designed to degrade wastewaters that are heavily contaminated with BOD components, including hydrocarbons, surfactants, fatty acids and aromatic compounds.
- Enhances BOD removal for better settling of solids, lowers effluent color and reduces effluent toxicity.
- Improves oxidation of fats, oils and greases.
- Improves regulatory compliance and increases water re-use capabilities.
- Reduces sludge volume as well as chemical, pumping and cleaning costs.
- Reduces sulfide odors and Improves foam control.
- Contains naturally occurring rather than genetically engineered microbes.
- Environmentally safe, non-toxic containing no acids, caustics or solvents.

Bea Munch Water Treatment has proven to be an effective treatment of plant wastewater effluence for the reduction of greases, oils, odors, and contaminant levels. While avoiding fines by the State Environmental Agency, the Bea Munch Water Treatment program will eliminate the plant's liability and reduce the costs associated with operating these systems (i.e., energy, maintenance, etc.).

APPLICATION TABLE

| Problem | Solution | Result |
|----------------------------|---|--|
| Sludge | <ul style="list-style-type: none"> ▪ Promotes improved flocculation ▪ Promotes better settling performance ▪ Digests solids | <ul style="list-style-type: none"> ▪ Operational efficiency ▪ Eliminates bulking in the clarifier ▪ Reduces haul-off expense |
| Contaminants | <ul style="list-style-type: none"> ▪ Reduces BOD ▪ Reduces COD ▪ Reduces TSS | <ul style="list-style-type: none"> ▪ Reduces penalties and surcharges ▪ Helps achieve effluent standards ▪ Increases capacity/volume of plant |
| Odor | <ul style="list-style-type: none"> ▪ Controls hydrogen sulfide ▪ Controls ammonia and amines ▪ Reduces odors | <ul style="list-style-type: none"> ▪ Eliminates most odors ▪ Eliminates masking agents ▪ Increases equipment life |
| Fats, Oils, Greases | <ul style="list-style-type: none"> ▪ Reduces scum formation ▪ Eliminates need for emulsification agents ▪ Replaces mechanical scum removal | <ul style="list-style-type: none"> ▪ Saves expense of emulsifying agents ▪ Reduces frequency of line blockage ▪ Reduces cost of aerator operation |
| Shock Disruptions | <ul style="list-style-type: none"> ▪ Helps quickly reduce organic concentrations | <ul style="list-style-type: none"> ▪ Reduces effect and cost of shock ▪ Allows plant to recover from toxins |
| Lift Stations | <ul style="list-style-type: none"> ▪ Reduces odors ▪ Reduces pipe clogs ▪ Increases float operation reliability | <ul style="list-style-type: none"> ▪ Pumps last longer ▪ Increases the value of the plant ▪ Decreases cleaning at lift stations |
| Application | <ul style="list-style-type: none"> ▪ No machinery required ▪ No redesign of plant ▪ Easily done by existing manpower | <ul style="list-style-type: none"> ▪ No cost increase ▪ Controls timing ▪ Reduces maintenance |

General Usage Chart

| Flow Rate | Initial Dosage | Maintenance |
|----------------|-----------------|------------------|
| Up to 1K gpd | 5 lbs. | 1½ lbs. per week |
| Up to 5K gpd | 5 lbs. | 2 lbs. per week |
| Up to 20K gpd | 8 lbs. | 2½ lbs. per week |
| Up to 50K gpd | 15 lbs. | 3 lbs. per week |
| Up to 250K gpd | 25 lbs. | ½ lb. per day |
| Up to 500K gpd | 50 lbs. | 1 lb. per day |
| Up to 1 mgd | 50 lbs. per mgd | 1½ lb. per day |