

# MOMAR

## BEC-700

### BACTERIAL ENZYME POWDER CONCENTRATE FOR FOAMING/BULKING/RISING SLUDGE CAUSED BY FILAMENTOUS BACTERIA. ENHANCES NITRIFICATION.

**BEC-700** is a high potency, bacteria-laden formulation for use in foam reduction, bulking and rising sludge caused by filamentous bacteria. **BEC-700** is a potent combination of billions of active aerobic and anaerobic bacteria cultures which produce enzymes specially engineered to degrade organic materials converting them into carbon dioxide and water. The foam associated with Nocardia and other filamentous bacteria is caused by excessive gas production and excessive lipids (food fats, oils and grease) in a wastewater treatment system. **BEC-700** consists of specially formulated cultures with high degrees of enzyme activity that out-compete filamentous bacteria for the available food source and excessive gases which are then used as nutrients. This process reduces the filamentous bacteria and associated foaming through natural selection. **BEC-700** also contains Nitrosomonas, Nitrobacter and facultative naturally occurring bacteria which enhance nitrification (oxidation of ammonia to nitrate).

#### ADVANTAGES

Greatly reduces labour time. Enhances BOD/COD removal. Reduces hydrogen sulfide & sludge buildup. Changes biomass dynamics. Cost effective & easy to use. Degrades a wide range of complex organics. Increases system efficiency. Eliminates malodours at their source. Discharge compliance is maintained. Breaks down fat & grease build-up. Contains no toxic chemicals. Contains facultative anaerobes. No special equipment needed. Increases system efficiency.

#### APPLICATIONS

SEWERS	HOLDING TANKS	LIFT STATIONS
WASTE WATER PLANTS	STATIC PONDS	OXIDATION DITCHES
SHIP BILGES	SEPTIC SYSTEMS	ACTIVATED SLUDGE
STATIC PONDS	DRAIN LINES	COLLECTION SYSTEMS
SEWAGE LAGOONS	GREASE TRAPS	

#### DEGRADES

Fats, oils & grease	Proteins	Soaps
Sludge Volume	Odour Sources	Ammonia
Cellulose	Phenols	Starches

#### TYPICAL PROPERTIES

Appearance:	light tan powder
Fragrance:	mild, earthy
pH:	6.8 - 8.5
Shelf-Life:	2 years (under normal operating conditions)
Flash Point:	none

## **PERFORMANCE PROPERTIES**

Effective pH range: 5 - 9.5  
Bacterial Enzyme Production: Facultative growth, with or without oxygen

## **STORAGE AND HANDLING**

Storage: Store in cool, dry place.  
Handling: Wash hands thoroughly with warm soapy water after handling.

## **MICROBIOLOGICAL INFORMATION**

Contents: Multiple adapted microorganisms  
Bacterial count: 5.2 billion cfu's per gm.  
Effective temperature range 8 - 43°C

## **DOSAGE RATE INFORMATION**

**DRAIN AND DRAIN LINES:** Add 200 gm per week.

**GREASE TRAPS:** 150 gm per day for 3 days, for each 10 litre of trap size. For maintenance, 200 gm, twice weekly.

**SEPTIC TANK SYSTEMS:** Use 250 gm for each 1000 litres of system capacity as initial treatment. Use 200 gm per month for maintenance per 1000 litre capacity.

## **SEWAGE TREATMENT PLANTS**

Usually the first addition point is immediately after the primary clarifier.

**TRICKLING FILTERS:** Initial treatment should start at 250 gm per 10000 litres of daily flow. Repeat initial treatment 3 times. Subsequent treatments are recommended at 50 gm weekly for every 10000 litres of flow.

**OXIDATION TANKS:** Aeration is always recommended (but not necessary) to create maximum conditions for bacterial population growth. With properly aerated tanks, use 120 - 150 gm for each 10000 litres of sewage.

**LIFT STATIONS & LATERALS:** Use 375 gm per 5000 litre capacity directly into wet well. Treatment is best accomplished during low flow periods and can be added directly through manholes.

**SETTLING TANKS:** Use 600 gm per 10000 litre capacity.

**LAGOON, OXIDATION PONDS:** Use 120 gm weekly per 10000 litres of capacity.

**AEROBIC/ANAEROBIC DIGESTERS:** Initial treatment should start at 1.5 - 2 kg per 1000 litres of sludge. Repeat initial treatment 3 times. Preventative maintenance of 500 gm - 1 kg per week per 1000 litres of sludge is recommended.

## **SUPPLIED BY:**

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