



PRODUCT DESCRIPTION – EnBac® B570

Description

EnBac® B570 is a powder containing a specially-formulated range of micro-organisms, which biologically treats wastewater produced in the Pulp and Paper industry.

Enbac® B570 contains:

- High performance aerobic and facultative anaerobic micro-organisms
- Specific micro-nutrients for pulp and paper waste streams (including trace metals, vitamins, amino acids and metabolic stimulants)
- Macro- nutrients – essential to the balanced growth of the micro-organisms
- Bio-enhancer

How EnBac® B570 works

The micro-organisms in EnBac® B570 will form a biomass within the treatment environment. The micro-organisms will then produce enzymes which go to work on the contamination in the wastewater. They break down the extra cellular polymers which cause foaming, and suppress the growth of filamentous organisms by affecting the structure of the filaments. The end products are CO₂ and H₂O.

The Effects of Using EnBac® B570

B570 enhances the organic removal efficiency of a treatment system. This reduces BOD, COD and TSS.

B570 reduces the accumulation of unsightly grease deposits, so increasing the efficiency of the treatment system and reducing maintenance costs.

B570 improves solids settling, where this may have been disturbed by loading fluctuation.

B570 accelerates the start-up of new systems and aids recovery after upsets.

Low temperatures may upset treatment systems. B570 helps to improve cold weather operation.

B570 reduces sludge production.

B570 controls flocculation by competing against filaments.

B570 significantly reduces odours in the treatment system's local environment.

Dosage Rate for Treatment Plants

<u>Flow Rate</u>		<u>Initial Dose</u>	<u>Maintenance Dose</u>
Up to 10 m ³ /day	0.1 lps	0.5kg pd x 3 days	0.5kg per week
Up to 50 m ³ /day	0.5 lps	1.5kg pd x 3 days	1kg per week
Up to 200 m ³ /day	2 lps	5kg*	1.5kg per week
Up to 400 m ³ /day	5 lps	8kg*	2kg per week
Up to 2000 m ³ /day	25 lps	15kg*	0.25kg per day
Up to 4000 m ³ /day	50 lps	25kg*	0.5kg per day
Up to 8000 m ³ /day	100 lps	50kg*	1kg per day
Up to 40,000 m ³ /day	500 lps	50kg per 100 lps*	1kg per 100 lps per day
Up to 100,000 m ³ /day	1200 lps	50kg per 100 lps*	0.75kg per 100 lps per day
Up to 800,000 m ³ /day	10,000 lps	30kg per 100 lps*	0.5kg per 100 lps per day

*Spread Initial dose equally over 10 days

Dosage rates will vary with flow rates, retention times and system variation. The above rates are for a typical, well-maintained system.

Dosage Rates for Activated Sludge Systems

For various processes including Extended Aeration Processes, Contact Stabilisation, Step Aeration and Oxygen Activated Sludge Systems, use the above table to calculate the correct dosage rate based on the average daily flow to the aeration basin, *excluding* the return sludge stream. If the flowrate is not regular due to seasonal or other reasons, please contact your Distributor or us for advice.

Dosage Rates for Trickling Filter and Rotating Batch Contactors (RBCs)

Use the above table to calculate the correct dosage rate based on the average daily flow to the filter or contactor, *excluding* the recirculated stream. If the flowrate is not regular due to seasonal or other reasons, please contact your Distributor or us for advice.

Dosage Rates for Lagoons

These vary depending on the design of the lagoon:

Aerated Lagoon Systems

Use the above table to calculate the correct dosage rate based on the average daily flow into the lagoon.

Faculative Lagoon Systems

The dosage rate is calculated according to the lagoon's surface area:

Day 1,2 and 3 20kg per 10,000 square metres

Day 4+ 2kg per 10,000 square metres

Anaerobic Lagoons

The dosage rate is calculated according to the lagoon's total volume:

<200,000 litres 1kg – 2x per week, per 10,000 litres

>200,000 litres 0.5kg – per day, per 10,000 litres

Cold Climate Lagoons

Commence the treatment when water temperature is at least 11° C.

Packaging

40 x 250g water-soluble sachets. 10kg per plastic bucket.

Storage

Avoid storage below freezing and above 38°C. Keep product dry. Do not use on food contact surfaces. Avoid contamination of food during use and storage.

Safety

Avoid inhaling dust. Do not ingest product. If product is swallowed, do not induce vomiting. Give water to dilute product in stomach. Wash hands after using product. Eye contact may cause irritation. Flush with water for at least 15 minutes. See MSDS for additional information.

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