



## TECHNICAL DATA SHEET

**TZBI-108CB**

**TZBI-108CB IS FORMULATED TO DEGRADE COMPLEX ORGANIC CHEMICALS DEPOSITS (PHENOLS, BENZENE, ALCOHOLS).**

Benefits of use:

- Enhances BOD and COD removal while reducing sludge yield;
- Removes chemical deposits and prevent scum formation in holding tanks, sewers, drains and aeration basins;
- Prevents the blocking, ponding and possible collapse of filter bed media;
- Accelerate the removal of unpleasant odours;
- Increases the efficiency of over leaded treatment systems;
- Reseed after plant upset.

### SPECIFICATIONS

Description	Tan color, free-flowing granular powder
Packaging	250g water-soluble packages; 10kg plastic pail
Stability	Max. loss of 1 log/yr
pH	6.0 – 8.5
Bulk Density	0.5 – 0.61 g/cm <sup>3</sup>
Moisture Content	15%
Nutrient Content	Biological nutrients and stimulants
Plate Count	5 billion per gram
Storage and Handling	DO NOT FREEZE! Store in a cool dry location. Do not inhale dusts. Avoid excessive skin contact. See MSDS.



## APPLICATION INSTRUCTIONS

### TREATMENT PLANTS:

Flow Rate	Initial Dosage	Maintenance**
Up to 0.1 L/sec	0.5 kg/day for 3 days	0.5 kg/week
Up to 0.5 L/sec	0.5 kg/day for 3 days	1.0 kg/week
Up to 2 L/sec	5 kg*	1.5 kg/week
Up to 5 L/sec	8 kg*	2.0 kg/week
Up to 25 L/sec	15 kg*	0.25 kg/day
Up to 50 L/sec	25 kg*	0.5 kg/day
Up to 100 L/sec	50 kg*	1.0 kg/day
Up to 500 L/sec	50 kg/100 L/sec*	1 kg/100 L/sec/day
Up to 1200 L/sec	50 kg/100 L/sec*	0.75kg/100 L/sec/day
Up to 10 000 L/sec	30 kg/100 L/sec*	0.5 kg/100 L/sec/day

\*Spread this initial dosage out over the course of 10 days.

\*\*Add as regularly as possible. If one day is missed, double the daily dosage the next day.

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

### ACTIVATED SLUDGE SYSTEMS:

Activated Sludge Systems include various process flow sheets: e.g. extended aeration, contact stabilization, step aeration, oxygen activated sludge.

The application rate for all products is based on the average daily flow rate to the aeration basin, excluding the return sludge stream.



**TRICKLING FILTER AND ROTATION BIOLOGICAL CONTACTORS:**

The application rate for all products is based on the average daily flow rate to the filter or contactor, excluding any recirculating process stream.

**LAGOON SYSTEMS:**

*Aerated systems:* Application rate is based on the average flow rate to the lagoon.

*Facultative systems:* Application rate is based on the lagoon surface area:

Day 1-5	20kg/10 000m <sup>2</sup> /day
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Day 6+	2 kg/ 10 000m <sup>2</sup> /week

*Anaerobic systems:* Application rate is based on the total volume of the anaerobic lagoon:

<200 000 L	1 kg – 2x/week/10 000L
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>200 000L	0.5 kg – 1x/day/10 000L

*Lagoon in cold climates:* Commence program when the weather temperature is at 50°F (11°C.)