# BCP11™

## Chemical Industry Wastewater Bioaugmentation

BCP11™ is a microbial bioaugmentation product developed to support biological treatment of wastewater generated by chemical manufacturing and industrial processing operations. Its specialized microbial consortium helps improve the biodegradation of challenging organic loads and supports treatment systems exposed to variable loading or inhibitory wastewater conditions.

BCP11™ supports BOD and COD reduction, helps maintain stable biological treatment performance, and provides additional microbial capacity during system startup, high-load conditions, or recovery following treatment plant upsets.

### Features & Benefits

- Supports biological startup and system recovery
- Supports BOD and COD reduction
- Helps improve effluent quality
- Supports treatment performance under variable or high organic loading
- Helps reduce treatment disruptions associated with shock loading
- Helps control excessive filamentous growth
- Supports odor and foam reduction
- Helps maintain stable biological treatment performance

### Specifications

| | |
|---|---|
| Color & Appearance | Beige powder with black granules |
| pH | 7.0–8.0 |
| Bacteria Count | $5 \times 10^9$ CFU/g |
| Shelf Life | 2 years |



### Storage

Store in a cool, dry location. Keep containers tightly closed, before and after opening, to prevent moisture absorption and exposure to direct sunlight. Please follow the recommendations and use the product before the best before date. Contact Bionetix® with questions. Avoid inhalation, eye contact, and prolonged skin contact. Wash hands thoroughly after handling.

### Typical Applications

- Chemical manufacturing wastewater treatment
- Industrial process wastewater treatment plants
- Activated sludge systems
- Aerated lagoons
- Facultative lagoons
- Trickling filters and rotating biological contactors
- Systems exposed to variable or high organic loading
- Systems receiving inhibitory industrial wastewater
- Treatment plant startup and recovery following process upsets

## Directions for Use

### DOSAGE AND TREATMENT PLAN

For treatment systems of 100 $m^3$ or greater, calculate the recommended product dosage and generate a three-month treatment plan using the Bionetix® Wastewater Dosing Calculator: https://calculator.bionetix-international.com/

### APPLICATION METHOD

Apply BCP11™ directly to the active biological treatment system, either as a powder or pre-dispersed in water to improve distribution. Introduce the product at a well-mixed location that ensures adequate contact with the active biomass and sufficient hydraulic retention time.

For industrial wastewater containing concentrated chemical contaminants, ensure adequate equalization and pH adjustment before biological treatment. Avoid introducing BCP11™ directly into highly concentrated chemical discharges or wastewater exhibiting extreme pH or acute toxicity.

Maintain adequate mixing, aeration where applicable, and suitable operating conditions to support microbial activity.

### APPLICATION BY TREATMENT SYSTEM

Activated Sludge Systems and Biological Reactors: Apply at the influent to the biological stage or directly into the aeration basin at a well-mixed point. Ensure adequate aeration and avoid direct exposure to concentrated chemical discharges.

Sequencing Batch Reactors (SBR): Apply during the filling or aeration phase to promote effective distribution and contact with the active biomass. Avoid dosing during settling or decanting.

Aerated Lagoons: Apply near the influent, aeration equipment, or active circulation zones after appropriate wastewater equalization and pH adjustment.

Facultative Lagoons: Distribute the dosage among multiple application points to improve contact with the active biological treatment zones. Evaluate oxygen availability and wastewater characteristics before application.

Trickling Filters and Biological Contactors: Apply upstream of the biological media to promote uniform distribution across the active treatment surface, following adequate wastewater conditioning.

Equalization Systems: Use equalization to homogenize variable industrial wastewater loads and minimize chemical shocks. Introduce BCP11™ at the outlet of the equalization stage or at the inlet to the active biological treatment system.

### SYSTEMS BELOW 100 $m^3$

For treatment systems below 100 $m^3$, dosing recommendations vary according to system configuration, wastewater characteristics, and operating conditions. Contact Bionetix® Technical Support for specific dosing guidance.

bionetix®
innovative biosolutions

The information presented in this product sheet is believed to be reliable. This information is provided as representative only, and there are no warranties, expressed or implied, regarding its performance. Since neither distributor nor manufacturer has any control over handling, storage, use, or application conditions, they are not responsible for any claims, liabilities, damages, costs, or expenses of any kind arising out of or in any way connected with the handling, storage, or use of the product described. Refer to the Safety Data Sheet (SDS) for additional information on safe handling, storage, and spill response procedures.

21 040 rue Daoust • Ste-Anne-de-Bellevue • Quebec, Canada H9X 4C7
T 514.457.2914 • F 514.457.3589 • www.Bionetix-International.com

ISSUED DATE: 11/04/26. SUPERCEDES: 08/2014.

©2026 Bionetix® International. All Rights Reserved. Unauthorized copying and/or manipulation of these materials, in any form, is strictly prohibited without the prior written authorization of Bionetix® International. ISO accreditation applies solely to Bionetix's processes.