BCT-HCR

BCT-HCR contains a combination of microorganisms and enzymes that are specially blended for petroleum refining and petrochemical applications. The beneficial microorganisms in BCT-HCR can degrade hydrocarbons like alkanes and aromatic compounds. BCT-HCR is used in petroleum refining wastewater systems to improve plant efficiency and simplify operations by improving hydrocarbon degradation, reducing hydrocarbon-related filament outbreaks, and improving system stability.

BCT-HCR can be used for multiple applications, including daily dosing to maintain microbial community health, increased dosing during high loading or upsets, and seeding during plant start-ups. BCT-HCR is added daily directly to the aerobic treatment unit.

Features & Benefits

Promotes floc and biofilm formation	Degrades BOD/COD and lowers polymer demand
Degrades inhibitory compounds	Degrades hydrocarbons, aromatics, cyanide, heavy metals, phenolics, and sulfides
Pre-measured water-soluble bags	Easy to dose

Physical Data

Bacteria Count	5 billion CFU/gram
Appearance and odor	Free-flowing dry powder, no fragrance added
Components	Microorganisms, bran, sand

Operating Conditions

The microorganisms in BCT-HCR perform within the pH range 6.0–9.0, with an optimum near 7.0. Wastewater temperature affects activity, with an approximate doubling in maximum growth rate for each 10°C (18°F) increase in temperature to an approximate upper limit of 50°C (122°F), unless otherwise indicated. Very low activity can be expected below 5°C (41°F). The dosage rate for BCT-HCR is dependent on a number of variables, including wastewater constituents, average daily flow, volume of the biological reactor, and COD load. During the initial seeding period, an increased dosage is used to quickly establish the microorganisms in the system. When the microbial community is properly grown, regular dosing is necessary to maintain an accelerated level of biological activity. Specific dosing recommendations are determined based on plant-specific conditions. Increased dosing of BCT-HCR is needed for seeding new systems or recovering from plant upsets.

Caution

BCT-HCR has a blend of microorganisms rated as BioSafety Risk Group 1 as defined by organizations such as the CDC and NIH. BCT products contain naturally occurring, non-genetically engineered bacteria which have been subjected to stringent antibiotic screening. Avoid inhalation of dusts. Wash hands thoroughly with soap and water after handling. Avoid contact with eyes.

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For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**[136].