

RBC 200

Light industrial waste water
Chemical industry waste water
Leachates (municipal landfill and soil bioremediation)
Some process and used water
Pre-treatment and Polishing treatment

(surfactants, BTEX, alcohols, phenol, COD, leachates)

Overview

A multifunctional product containing a special blend of microbial cultures selected and adapted to improve their ability to degrade a variety of oily hydrocarbon wastes. The selected bacterial strains work efficiently on both food preparation and processing, and mineral oil wastes. Suitable for waste water and solid waste treatments

Technical Description

The bacterial strains for RBC 200 have the ability to degrade a wide range of long chain hydrocarbon molecules found in FOG's from food processing operations as well as refined petrochemicals and non-toxic, light industrial wastes from textile, textile chemical, paper and resin industries. This product is also used for municipal waste water treatment systems in areas with mixed liquors from light (or unknown) industrial and vegetable processing effluents.

It is very common in these industries to use a range of cleaning chemicals containing non-ionic and anionic detergents. The bacterial strains in RBC 200 are also capable of degrading many of these chemicals. Many *Nocardia* bacteria can generate a biosurfactant that is generally unaffected by commercial defoamers. These biosurfactants can be reduced by the bacteria in RBC 200 which can then indirectly reduce filamentous bulking that is common in oily wastes.

RBC 200 is used as both a pretreatment for the hydrolysis and acetogenesis stages prior biogas production, and also to as a polishing treatment for treated and run-off water

Key Features and Advantages

- Performs within a broad temperature range from between 4°C to 35°C.
- Can degrade a wide range of alkyl chains, detergents and surfactants
- Improves maximum rates of organic removal as measured by BOD, COD and TOC.
- Provides higher bacterial growth to improve stability in response to organic overloads.
- Provides the ability to degrade a wide spectrum of recalcitrant industrial chemicals.
- Improves the waste treatment system stability.
- Enhances flocculation in activated sludge.



Product Data Sheet

- Facilitates rapid recovery from load-related shock caused by high COD loading and flows as well as toxic shock.
- Reduces the impact of production increases or changes in effluent quality.
- Enables more rapid plant, seasonal, or maintenance start-up.

Physical Aspect:	brown free-flowing powder
Packaging:	100 g water-soluble pouches / 10kg plastic pail 10Kg bulk powder
Stability:	12 months*
Product pH Range:	5.5 to 7.0
Product Density:	0.7 - 0.8 g/cm ³
Moisture Content:	Below 15%
Nutrient Content:	Biological nutrients and stimulants
Bacterial Concentration:	min 2x10 ⁹ CFU per g <i>Bacillus</i> only (4 species)
Usage Conditions:	Do not freeze. Take care not to inhale dusts. Avoid excessive skin contact. Refer to SDS

Applications

Can be used in many light industrial waste water treatment applications. From activated sludge to settlement lagoons. Also suitable for the treatment of leachates

Product preparation

RBC 200 may be added directly to the waste influent stream or aerated basin. For potentially toxic wastes or short retention times, re-hydration for between 30 to 90 minutes prior to its addition to a waste system is recommended, using 9L of water per 500g of RBC 200.

For best results, the make-up water temperature range should be between 21°C and 31°C.

Optimum conditions for use

The bacteria in RBC 200 perform within a pH range of between 6.5 and 8.5, with optimum activity near a pH of 7.0. Temperature affects the growth rate of the bacterial population and activity improves with a temperature of between 30°C and 37°C. No appreciable activity can be expected below 5°C and above 55°C.

Storage and handling

- Store in a dry place at room temperature. The recommended storage temperature is within a range of 1°C and 23°C.
- Avoid excessive inhalation.
- Avoid eye contact.
- Wash hands thoroughly with warm, soapy water after handling.



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