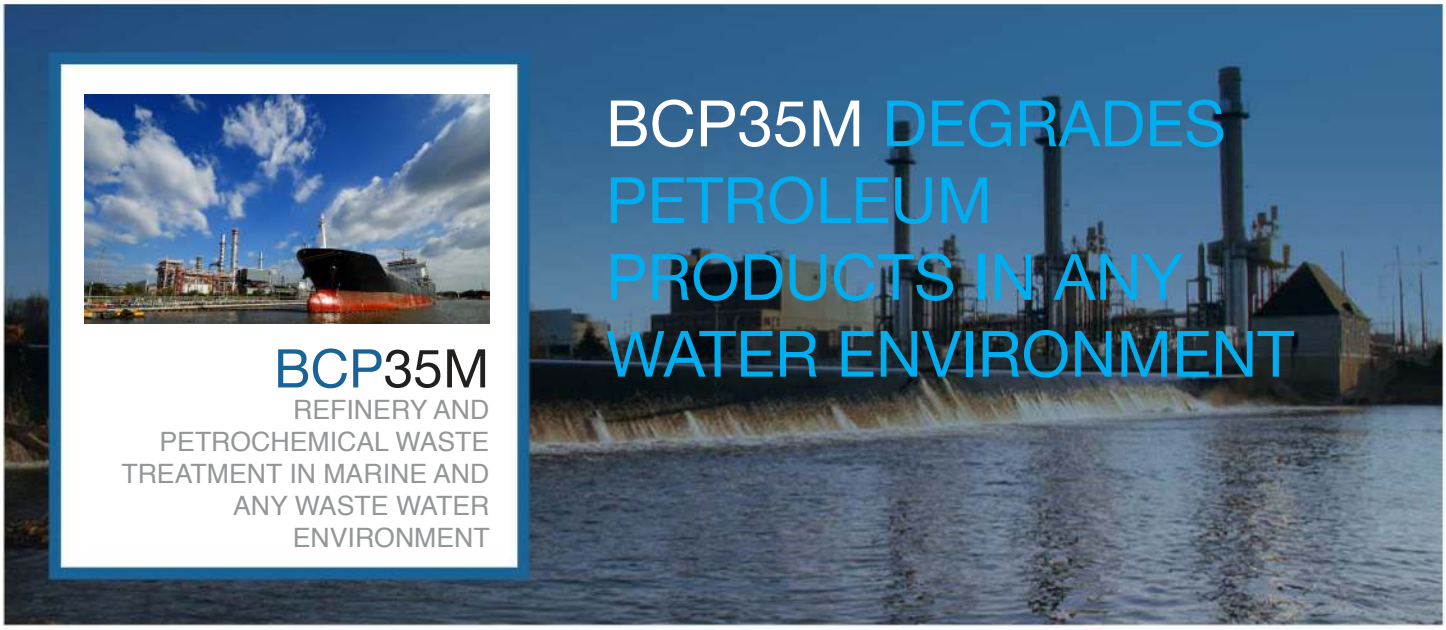

BCP35M

REFINERY AND PETROCHEMICAL WASTE TREATMENT IN MARINE AND ANY WASTE WATER ENVIRONMENT

BCP35M DEGRADES PETROLEUM PRODUCTS IN ANY WATER ENVIRONMENT

Use in petroleum refinery applications and for oil spills

BIOAUGMENTATION WITH BCP35M CAN:

- **Enhance BOD and COD removal, while improving sludge settlement;**
- **Remove oil deposits and prevent scum formation in holding tanks, sewers, drains, and aeration basins;**
- **Accelerate breakdown of unpleasant odours associated with handling oil wastes.**

DISCUSSION

BCP35M contains aerobic and facultative anaerobic microorganisms to provide greater resistance to the effects of organic inhibitors present in wastewaters with a high salt content. Microorganisms are specially selected to digest petroleum hydrocarbons.

BCP35M contains bacteria that produce rhamnolipids. These bacterial surfactants increase the biological decomposition of hydrocarbons by separating contaminants into smaller droplets. As a result, bioavailability improves for our proprietary bacteria, which have been specifically developed to digest hydrocarbons aggressively.

SPECIFICATIONS

Description:	Beige, free –flowing powder with black and white granules
Packaging:	Bulk, water soluble pouches (200 x 56g, 400 x 28g, 40 x 250g), custom packaging available
Bulk Density:	0.6-0.75 g/cm^3
Stability:	Max. loss of 1 log/yr
pH (1% Solution):	6.5-8.0
Nutrient Content:	Biological nutrients and stimulants
Enzyme Present:	Amylase, Lipase, Cellulase, Protease
Bacteria Count:	5 billion CFU/g
Storage and Handling:	Store in a cool dry location. Do not inhale dust. Avoid contact with eyes. See SDS. Bionetix will not be held responsible for quality issues after 6 months of storage.

CLEANS UP OILY WASTES IN ANY WATER ENVIRONMENT

Bionetix INTERNATIONAL
A Subsidiary of Cortec® Corporation

ISO 9001 Certified
Quality System Registered

We work for nature

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REFINERY AND PETROCHEMICAL WASTE TREATMENT IN MARINE AND ANY WASTE WATER ENVIRONMENT

APPLICATION INSTRUCTIONS

Treatment Plants —

Flow Rate	Initial Dosage	Maintenance**
Up to 0.1 L/sec	0.5kg/day for 3 days	0.5 kg/week
Up to 0.5 L/sec	0.5kg/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 1,200 L/sec	50 kg/100 L/sec*	1 kg/100L/sec/day
Up to 10,000 L/sec	50 kg/100 L/sec*	1 kg/100L/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 a typical, well-maintained system.

Activated Sludge Systems —

Activated Sludge Systems include various processes such as 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 Rotating 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	20 kg/10,000m^2/day
Day 6+	2 kg/10,000m^2/week

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

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

- *Lagoons in cold climates* — commence program when the water temperature is at least 10°C (50°F). For application at temperatures below 11°C contact your Bionetix technical representative.

For seasonal or widely fluctuating flows, contact your BIONETIX® technical representative.

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