

## CHM-HCT-5B

### PRODUCT DESCRIPTION:

A concentrated, dry blend of stabilized bacterial spores and micronutrients formulated for use in the degradation of petroleum based hydrocarbons

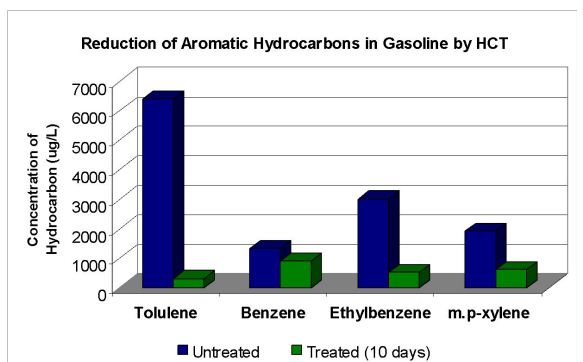
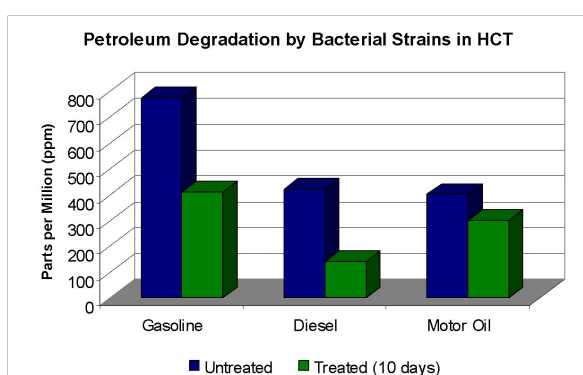
### ADVANTAGES

Refinery wastewater contains petroleum hydrocarbons and non-petroleum organic wastes. For this reason, Chemtech's **CHM-HCT-5B** contains a synergistic blend of petroleum degrading and organic waste degrading microbial strains.

Each strain in **CHM-HCT-5B** is selected to work under diverse environmental conditions and provide the most complete digestion of petroleum and petroleum degradation by-products.

**CHM-HCT-5B** contains proven petroleum degrading strains. As shown in the two graphs on the right, gas chromatograph analysis confirmed that these strains metabolize hydrocarbon products such as gasoline, oil, diesel, and BTEX (Benzene, Toluene, Ethylbenzene, and Xylene).

The bacterial cultures in this blend are also beneficial in treating soil contaminated with hydrocarbons. Soil treatments can be spray applied or tilled into the contaminated soil. The addition of nutrients in soil applications to balance the system often shows increased activity.



### APPLICATIONS

- Petroleum contaminated wastewater
- Marine bilges
- Car/Truck washes
- Soil remediation

## PRODUCT PROFILE

These bacteria are stabilized to ensure long-term stability and extended shelf-life

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>● <u>Multiple <i>Bacillus</i> Species</u></li><li>● Amylase, Protease, Lipase, Esterase,</li><li>● Urease, Cellulase, Xylanase, and a series of Hydrocarbon degrading enzymes</li></ul> | <ul style="list-style-type: none"><li>● Naturally occurring, non-engineered</li><li>● Aerobes and facultative anaerobes</li><li>● Highly motile</li><li>● Positive chemotaxis</li><li>● 100% stabilized bacterial spores</li></ul> |
|---|--|

## HCT Specifications

Guaranteed Minimum Bacterial Concentration:  
5 billion CFU/g (1.8 Trillion CFU/pound)

## TYPICAL PROPERTIES

Appearance.....dry, tan, free-flowing powder.  
Shelf Life.....one year from the date of manufacture

## PERFORMANCE PROPERTIES

Effective pH range.....5.0 - 10.0  
Effective Temperature Range.....40 -130 degrees F (5 – 55 deg. C)  
Bacterial Enzyme Production.....Amylase, Protease, Lipase,  
Esterase, Urease, Cellulase, Xylanase, and a series of Hydrocarbon degrading enzymes

## PACKAGING

One pound water soluble packets in 25 pound pails or bulk powder 325 pound drums.

## STORAGE AND HANDLING

Storage.....Store in a cool, dry place  
Handling.....Wash hands thoroughly with warm, soapy water after handling

[www.chemtech-us.com](http://www.chemtech-us.com)

Westfown Business Center 1568 McDaniel Drive West Chester, PA 19380 USA  
P: 610-566-7177 F: 484-266-7137

[sales@chemtech-usa.com](mailto:sales@chemtech-usa.com) Follow us on LinkedIn: Chemtech International Inc