JMN SPECIALTIES, INC.
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PRODUCT BULLETIN

BIOSPEC 150

Advanced Microbial Hydrocarbon Remediation Concentrate

General Description

BIOSPEC 150 is a highly concentrated microbial hydrocarbon treatment formulation designed to support the biological degradation of petroleum hydrocarbons, fuels, oils, greases, and other biodegradable organic contaminants. The product combines a concentrated Bacillus spore package with an advanced surfactant system, nutrient support package, biodegradable chelation technology, and performance-enhancing additives to promote rapid establishment and activity of hydrocarbon-degrading microorganisms following application. The formulation is designed to improve contact between microorganisms and hydrocarbon contamination by enhancing wetting, penetration, and dispersion of oils and fuel residues. BIOSPEC 150 may be applied to contaminated soils, wastewater systems, lift stations, oil-water separators, tank bottoms, sump pits, grease accumulations, fuel spills, crude oil releases, and other hydrocarbon-impacted environments where biological treatment is desired.

Applications

BIOSPEC 150 is suitable for treatment of petroleum-contaminated soils, fuel spills, crude oil contamination, diesel and gasoline releases, tank bottoms, drilling and production waste streams, refinery and terminal operations, oil-water separators, wastewater treatment systems, lift stations, collection systems, grease accumulations, sump pits, lagoons, retention ponds, and other environments where hydrocarbon degradation and organic waste reduction are desired. The product may also be used as part of preventative maintenance programs designed to reduce hydrocarbon accumulation, sludge formation, grease deposits, and odor-producing organic residues in industrial and municipal systems.

Features and Benefits

BIOSPEC 150 combines concentrated microbial technology with advanced surface-active chemistry to provide a comprehensive approach to hydrocarbon remediation and organic waste treatment. The formulation delivers approximately **400 billion colony-forming units (CFU) per gallon** of finished product, providing a concentrated population of hydrocarbon-degrading Bacillus spores that remain stable during storage and become active when introduced into contaminated environments. The integrated nutrient package supplies essential nitrogen, phosphorus, and potassium required for microbial metabolism, growth, and reproduction. By helping reduce nutrient limitations commonly encountered in contaminated soils, wastewater systems, and hydrocarbon-impacted environments, **BIOSPEC 150** supports rapid microbial establishment and sustained biological activity following application. Biodegradable chelation technology helps maintain the availability of trace minerals and micronutrients required for microbial performance while improving effectiveness in hard-water and mineral-rich environments. The advanced surfactant package improves wetting, penetration, dispersion, and contaminant accessibility, helping microorganisms establish better contact with oils, fuels, greases, sludge deposits, and weathered petroleum residues. The result is a high-strength microbial remediation concentrate designed to support hydrocarbon degradation, wastewater treatment enhancement, odor reduction, sludge reduction, and improved biological treatment performance across a wide range of environmental and industrial applications.

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Directions for Use

Application rates should be determined based on contaminant type, contamination level, environmental conditions, and treatment objectives. Product may be applied directly, diluted with water, sprayed onto contaminated surfaces, injected into wastewater systems, circulated through treatment equipment, or incorporated into site-specific remediation programs. For best results, maintain adequate oxygen availability and environmental conditions suitable for biological activity. Additional applications may be beneficial where contamination levels are severe or ongoing.

Compatibility

BIOSPEC 150 is compatible with most wastewater treatment systems, hydrocarbon remediation programs, and environmental treatment applications. Avoid direct mixing with strong oxidizers, disinfectants, sanitizers, chlorine-based products, biocides, strong acids, strong alkalis, or other materials that may adversely affect microbial viability.

Environmental and Regulatory Information

BIOSPEC 150 contains naturally occurring, non-pathogenic microbial cultures and biodegradable performance additives. The formulation is designed to support the biological degradation of petroleum hydrocarbons and organic contamination in environmental and industrial treatment applications. The product is not classified as a hazardous material for transportation under DOT regulations when shipped in its original form. Users remain responsible for compliance with all applicable federal, state, provincial, and local regulations governing product use, discharge, remediation activities, and waste disposal.

Physical Properties

Appearance	Opaque White to Light Tan Liquid
Odor	Mild
pH	7.0 – 8.0
Specific Gravity	1.00 – 1.03
Density	8.4 – 8.6 lb/gal
Solubility in Water	Complete
Surface Tension	Approximately 30–35 dynes/cm @ 25°C
Flash Point	None / Nonflammable
VOC Content	<1%
Storage Stability	Minimum 24 Months When Stored as Recommended

(Typical values; not a specification)

Microbial Characteristics

Bacillus Spore Concentration	Approximately 400 Billion CFU/Gallon
Microbial State	Dormant Spores
Activation	Upon introduction to suitable environmental conditions

Availability

BIOSPEC 150 is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Handling and Safety

Store in original tightly closed containers in a cool, dry, well-ventilated area away from direct sunlight and excessive heat. Recommended storage temperature is between 40°F and 110°F (4°C and 43°C). Protect from freezing. Keep containers closed when not in use and rotate inventory on a first-in, first-out basis. When stored under recommended conditions, **BIOSPEC 150** is expected to maintain product stability and performance for a minimum of 24 months from the date of manufacture.

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