

# BIO·GREEN

BIO-GREEN TECHNOLOGY



## PRODUCT DATA SHEET

# Bio-Green Chlorinated Solvent Treat Liquid (CL)

Bio-Green CL is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to bioremediate all types of chlorinated solvents, hydrocarbons, foams, surfactants, detergents and ethoxylated hydrocarbons. Bio-Green CL is a blend of twelve facultatively anaerobic microbial cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all chlorinated solvent contaminants and other organic wastes are consumed. Bio-Green CL is non-toxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and is bio-degradable. Bio-Green CL is ideal for contaminations in petro-chemical, steel-making and specialty chemical plants.

### MIXING RATES

1 quart (approx 1 liter) of Bio-Green CL concentrate dilutes to 50 gallons (200 liters) of ready to use product. For best results use diluted product 24-36 hours after dilution.

### APPLICATION RATES

**Suggested application rate is as follows:**

#### Soil Bio-Remediation:

- ▶ Chlorinated solvent levels less than 10,000 ppm: 1 gal per 1 yd<sup>3</sup> (5 L per 1m<sup>3</sup>) of contaminated soil.
- ▶ Chlorinated solvent levels greater than 10,000 ppm: 2 gal per 1 yd<sup>3</sup> (10 L per 1 m<sup>3</sup>) of contaminated soil.

#### Facility Contaminations:

- ▶ Systems less than 2000 gallons (7571 liters): 18 gallons (68 liters) into separator via metering pump every month.
- ▶ Systems greater than 2000 gallons (7571 liters): 36 gallons (136 liters) into separator via metering pump every month.

Size	Part #	Pack
55 gallon	1014	1qt. Concentrate



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## PRODUCT DATA SHEET

### Bio-Green Hydrocarbon Treat Cube (HC)

Bio-Green HC Cube is a solid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to bio-remediate all factions of crude or modified petroleum products and paraffin wax. Bio-Green HC Cube is a blend of six facultatively anaerobic microbial cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all oil contaminants and other organic wastes are consumed. In addition to specific enzymes, several cultures create their own bio-surfactant to aid in emulsifying oils and fats. Bio-Green HC Cube is non-toxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and is bio-degradable. Bio-Green HC Cube may be used for effective bio-remediation of several hydrocarbon fractions, oils & fats in contaminated soils and other mediums. Bio-Green HC Cube is also commonly used in industrial oil-water separators to control hydrocarbon levels.

#### APPLICATION RATES

**Suggested application rate is as follows:**

Bio-Green HC Cube will reduce waste and control odors in treatment area for 30-60 days, depending on the flow rate.

**Directions for Use:**

Suspend Bio-Green HC Cube from a synthetic rope into treatment area.

**Applicable Uses:**

Use in municipal, agricultural and industrial wastewater lagoons, holding ponds and tanks.

Size	Part #	Pack
2 lb.	2008.2	4 per case
5 lb.	2008.5	4 per case
10 lb.	2008.10	2 per case



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## PRODUCT DATA SHEET

### Bio-Green Hydrocarbon Treat Granular (HC)

Bio-Green HC is a granular blend of product consisting of naturally occurring; scientifically selected (but not genetically manipulated) microbes formulated to bioremediate all factions of crude or modified petroleum products and paraffin wax. Bio-Green HC is a blend of six facultatively anaerobic microbial cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all oil contaminants and other organic wastes are consumed. In addition to specific enzymes, several cultures create their own bio-surfactant to aid in emulsifying oils and fats. Bio-Green HC is nontoxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and bio-degradable.

#### APPLICATION RATES

**Suggested application rate is as follows:**

##### Soil Bio-Remediation:

- ▶ Hydrocarbon levels less than 10,000 ppm:  
Apply 17 lbs per 100 yd<sup>3</sup> (10 kg. per 100 m<sup>3</sup>) of soil.
- ▶ Hydrocarbon levels greater than 10,000 ppm:  
Apply 34 lbs per 100 yd<sup>3</sup> (20kg per 100 m<sup>3</sup>) of soil.
- ▶ For best results apply product to as much surface area of soil as possible, aerate and till often.

##### Oil-Water Separators:

- ▶ Separators less than 2000 gallons (7571 liters):  
2.5 lb (1.1 kg) per week.
- ▶ Separators greater than 2000 gallons (7571 liters):  
5 lb (2.3 kg) per week.

Size	Part #	Pack
50 lb.	3008	1 per container
1 lb.	3008.1	25 per container



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## PRODUCT DATA SHEET

### Bio-Green Hydrocarbon Treat Liquid (HC)

Bio-Green HC is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to bio-remediate all factions of crude or modified petroleum products and paraffin wax. Bio-Green HC is a blend of six facultatively anaerobic microbial cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all oil contaminants and other organic wastes are consumed. In addition to specific enzymes, several cultures create their own bio-surfactant to aid in emulsifying oils and fats. Bio-Green HC is nontoxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and biodegradable.

#### MIXING RATES

1 quart (approx 1 liter) of Bio-Green HC concentrate dilutes to 50 gallons (200 liters) of ready to use product. For best results use diluted product 24-36 hours after dilution.

#### APPLICATION RATES

**Suggested application rate is as follows:**

##### Soil Bio-Remediation:

- ▶ Hydrocarbon levels less than 10,000 ppm: 1 gal per 1 yd<sup>3</sup> (5 L per 1 m<sup>3</sup>) of contaminated soil.
- ▶ Hydrocarbon levels greater than 10,000 ppm: 2 gal per 1 yd<sup>3</sup> (10 L per 1 m<sup>3</sup>) of contaminated soil.

##### Oil-Water Separators:

- ▶ Separators less than 2000 gallons (7571 liters): 18 gallons (68 liters) into separator via metering pump every month.
- ▶ Separators greater than 2000 gallons (7571 liters): 36 gallons (136 liters) into separator via metering pump every month.

Size	Part #	Pack
55 gallon	1008	1qt. Concentrate



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## PRODUCT DATA SHEET

### Bio-Green Hydrocarbon Treat Tabs (HC)

Bio-Green HC Tabs are a solid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to bio-remediate all factions of crude or modified petroleum products and paraffin wax. Bio-Green HC Tabs are a blend of six facultatively anaerobic microbial cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all oil contaminants and other organic wastes are consumed. In addition to specific enzymes, several cultures create their own bio-surfactant to aid in emulsifying oils and fats. Bio-Green HC Tabs are non-toxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and biodegradable. Bio-Green HC Tabs may be used for effective bio-remediation of several hydrocarbon fractions, oils & fats in contaminated soils and other mediums. Bio-Green HC Tabs are also commonly used in industrial oil-water separators to control hydrocarbon levels.

#### APPLICATION RATES

**Suggested application rate is as follows:**

Bio-Green HC Tabs will reduce waste and control odors in treatment area for 15-30 days, depending on the flow rate.

**Directions for Use:**

Drop Bio-Green HC Tab into treatment area.

**Applicable Uses:**

Use in municipal, agricultural and industrial wastewater lagoons, holding ponds and tanks.

Size	Part #	Pack
25" dia.	4008	5 per pack



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## PRODUCT DATA SHEET

### Bio-Green Parts Washer Tabs

Bio-Green Parts Washer Tabs are a solid blend of product consisting of naturally occurring; scientifically selected (but not genetically manipulated) microbes formulated to bio-remediate all factions of crude or modified petroleum products that have accumulated on mechanical parts. Bio-Green Parts Washer Tabs are a blend of six facultatively anaerobic microbial cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all oil contaminants and other organic wastes are consumed. In addition to specific enzymes, several cultures create their own bio-surfactant to aid in emulsifying oils and fats. Bio-Green Parts Washer Tabs are non-toxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and bio-degradable. Bio-Green Parts Washer Tabs may be used in conjunction with California Parts Washer Solution in a compatible parts washer machine assembly.

Bio-Green Parts Washer Tabs may also be used alone to remediate and control hydrocarbon levels in industrial and commercial settings.

#### APPLICATION RATES

**Suggested application rate is as follows:**

##### Parts Washer Machines:

Use 1 Bio-Green Parts Washer Tab per 5 gallons of a compatible parts washer machine assembly.

##### Oil Water Separators:

Drop 1 Bio-Green Parts Washer Tab into treatment area every week.

Size	Part #	Pack
2.5" dia.	4018.FR	5 per Pack



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## PRODUCT DATA SHEET

### Bio-Green Waste Treat Cube (WT)

Bio-Green WT Cube is a solid product blend consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of bio-mass (sludge) and to consume excess nutrients, including nitrates and phosphates, in wastewater treatment lagoons and holding tanks. Bio-Green WT Cube is a blend of six facultatively anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in Bio-Green WT Cube are strictly saprophytic and digest only non-living and dead materials. Use of Bio-Green WT Cube in conjunction with water flow, mechanical aeration or agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, Bio-Green WT substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

Bio-Green WT Cube may also be used alone to remediate and control hydrocarbon levels in industrial and commercial settings.

#### APPLICATION RATES

**Suggested application rate is as follows:**

Bio-Green WT Cube will reduce waste and control odors in treatment area for 30-60 days, depending on the flow rate.

**Directions for Use:**

Suspend Bio-Green WT Cube from a synthetic rope into treatment area.

**Applicable Uses:**

Use in municipal, agricultural and industrial wastewater lagoons, holding ponds and tanks.

Size	Part #	Pack
2 lb.	2007.2	4 per case
5 lb.	2007.5	4 per case
10 lb.	2007.10	2 per case



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## PRODUCT DATA SHEET

### Bio-Green Waste Treat Granular (WT)

Bio-Green WT is a granular product blend consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of bio-mass (sludge) and to consume excess nutrients including nitrates and phosphates in wastewater treatment lagoons and holding tanks. Bio-Green WT is a blend of six facultatively anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in Bio-Green WT are strictly saprophytic and digest only non-living and dead materials. Use of Bio-Green WT in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, Bio-Green WT substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

Bio-Green WT may also be used alone to remediate and control hydrocarbon levels in industrial and commercial settings.

#### APPLICATION RATES

**Suggested application rate is as follows:**

- ▶ **1st application:** 5 lbs per 1000 yd<sup>3</sup> (3 kg per 1000 m<sup>3</sup>) of effluent material.
- ▶ **Maintenance:** 2 lbs per 1000 yd<sup>3</sup> (1.2 kg per 1000 m<sup>3</sup>) of effluent material.
- ▶ Re-apply initial application whenever the B.O.D increases beyond regulated levels.
- ▶ For best results provide proper aeration of wastewater treatment lagoon or holding tank.

#### Applicable Uses:

Use in municipal, agricultural and zoological wastewater lagoons, holding ponds and tanks.

Size	Part #	Pack
1/2 lb.	3007.05	50 per case
1 lb.	3007.1	25 per case



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## PRODUCT DATA SHEET

### Bio-Green Waste Treat Tabs (WT)

Bio-Green WT Tabs are a solid product blend consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of bio-mass (sludge) and to consume excess nutrients including nitrates and phosphates in wastewater treatment lagoons and holding tanks. Bio-Green WT Tabs are a blend of six facultatively anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in Bio-Green WT Tabs are strictly saprophytic and digest only non-living and dead materials. Use of Bio-Green WT Tabs in conjunction with water flow, mechanical aeration or agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, Bio-Green WT Tabs substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

Bio-Green WT may also be used alone to remediate and control hydrocarbon levels in industrial and commercial settings.

#### APPLICATION RATES

**Suggested application rate is as follows:**

Bio-Green WT Tabs will reduce waste and control odors in treatment area for 15-30 days, depending on the flow rate.

**Directions for Use:**

Drop Bio-Green WT Tab into treatment area.

**Applicable Uses:**

Use in municipal, agricultural and industrial wastewater lagoons, holding ponds and tanks

Size	Part #	Pack
2.5" dia	4007	12 per case



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