

### DRILLING STICKS FOR BETTER HOLE PENETRATION PRODUCTS

NAME/PART NO.	SIZE	DESCRIPTION & USE
SAPP DRILL BIT STICKS Off Yellow (Water Soluble Tube)  ) ACL-SAP	1 1/4 X 15	Condensate dispersible, water soluble stick containing a combination of surfactants, blended with sodium acid pyrophosphate. Will perform in the presence of salt, or in fresh water systems. Primarily designed as a mud thinner/dispersant. However, other advantages are:(See Tech Data Sheet)
DRILL BIT STICK Blue (Cardboard Tube)  ) ACL-DBS	1 1/4 X 15	DRILL BIT STICKS are water soluble condensate dispersible sticks containing a combination of surfactants and friction reducers. Designed to perform in fresh and salt water conditions to increase the drilling efficiency and the life of the drill bits. Helps prevent clay from sticking and balling up.
WALNUT WONDER DRILL BIT STICK Black Brown Chips (Cardboard Tube)  ) ACL-WWS	1 1/4 X 15	Modified Drill Bit Stick with higher concentration of surfactants and friction reducer plus 20 percent of fine Walnut shell. Used to prevent bit balling and clean a slightly balled-up bit when combined with high GPM circulation due to its blasting effect.
WONDER DRILL BIT STICK Black (Cardboard Tube)  ) ACL-WDS	1 1/4 X 15	Water soluble condensate dispersible sticks containing both coating agent & friction reducers. Designed to perform in fresh and salt water to increase the drilling efficiency & life of drill bits. The slick coating & foaming action increases efficiency by preventing clay's from sticking, balling up the bit and plugging jets as well as optimizing mud and cutting returns and improving penetration into the formations.

### PROTOCOL SERIES --ENVIROMENTAL DEGREASERS AND CLEANERS

PROTOCOL K-300i INVERT MUD CLEANER		ENVIRONMENTALLY FRIENDLY. CFIA APPROVED. Protocol K-300i carries the Ecologo signifying certification by Canada's Environmental Choice Program, under the C.E.P.A. K-300i employs a combination of biodegradable surfactants and builders in a highly concentrated formula that has incredible performance with the added benefit of low environmental impact. K-300i must be diluted depending on the soil load to be cleaned. <b>For use in food plants, see directions.</b>
PART NO.	SIZE	
ACL-PK300i-121	12 X 1 LITRE BOTTLE	
ACL-PK300i-44	4 X 4 LITRE JUGS	
ACL-PK300i-20	20 LITRE PAIL	
ACL-PK300i-205	205 LITRE DRUM	
ACL-PK300i-1025	1025 LITRE TOTE	

## BIOSOL SERIES—ENVIRONMENTAL DEGREASERS AND CLEANERS

### BIOSOL 210 MUDWASH

Powerful yet economical Rig Cleaner that safely and effectively outflanks and extracts most contaminants from rig surfaces, Its primary mission is to seek and destroy all types of drilling mud—a mission which it never fails to complete with great success. Mudwash suspends contaminants with lightning speed. Allowing for quick and easy cleanup and rinse.

**Product Applications**

- ) Industry leading cost to treat
- ) Shakers
- ) Mud tanks
- ) Centrifuges
- ) Drilling rig platforms
- ) Invert spills
- ) Well kicks
- ) Drill heads
- ) Pipe
- ) Oilfield equipment

PART NO.	SIZE
ACL-BS210-20	20 LITRE PAIL
ACL- BS210-205	205 LITRE DRUM
ACL-BS210-1025	1025 LITRE TOTE

### BIOSOL 310 LEVASOL DEGREASER

Contains a unique blend of organic solvents, surfactants, emulsifiers, chelates and corrosion inhibitors that ensure faster, less labor intensive cleaning. Excess moisture is dispersed very quickly to accelerate drying time and a protective finish inhibits flash rust on exposed metals. And, of course, there are no hazardous fumes or hidden toxic by-products. Fully biodegradable, user safe and improves work site safety. Rig washing in oil & gas operations.

**Product Applications**

- ) Rig wash, invert muds, pumps and equipment
- ) Mining equipment (surface & underground)
- ) Marine and forestry equipment
- ) Machine shops, drill presses, shop floors & walls
- ) Motors, machinery, and manufacturing tools
- ) Ultrasonic tanks, generators
- ) Food safe for use in camp kitchens
- ) Food & meat processing equipment
- ) Animal fats, blood, protein deposits
- ) Lubricants
- ) Printing press maintenance (water-based inks)
- ) Wireline trucks & equipment
- ) Frac trucks & equipment
- ) Oilfield tools

PART NO.	SIZE
ACL-BS310-20	20 LITRE PAIL
ACL- BS310-205	205 LITRE DRUM
ACL- BS310-1025	1025 LITRE TOTE

## BIOSOL SERIES—ENVIRONMENTAL DEGREASERS AND CLEANERS

BIOSOL 610 HYPERSOL DEGREASER	
PART NO.	SIZE
ACL-BS610-20	20 LITRE PAIL
ACL-BS610-205	205 LITRE DRUM
ACL-610-1025	1025 LITRE TOTE

A powerful combination of organic, inorganic and synthetic solvents that stand up to the toughest degreasing challenges. Yet, it does not contain the carcinogens or hidden toxins often associated with their use. It's also 100% active – meaning that it contains absolutely no water. Count on BioSol™ 610 to quickly dissolve oil, grease, asphaltenes, wax, adhesives and organic materials. And, a special blend of additives ensures a clean, residue-free rinse.

**Product Applications**

- ) Drill rig degreaser (invert muds)
- ) Marine vessels, storage tanks, cargo holds, turbines & hoses
- ) Oilfield service rigs, downhole tools
- ) Oilfield equipment, bulk carrier tank cleaning
- ) Machine shops, steel fabricators
- ) Road construction, heavy machinery, tar removal
- ) Pulp & paper mills, forestry equipment (including blades)
- ) Mining equipment (underground & surface)
- ) Automotive detailing & repair
- ) Oil tanks, cylinder heads, generators
- ) Oil tools
- ) Crude oil, asphaltenes, bitumen, tar
- ) Grease, hydrophobic paraffin's

BIOSOL MEGASOL HEAVY DUTY DEGREASER	
PART NO.	SIZE
ACL-BSMEG-20	20 LITRE PAIL
ACL-BSMEG-205	205 LITRE DRUM
ACL-BSMEG-1025	1025 LITRE TOTE

A powerful solution to effectively and safely deal with any combination of soil, mud or sand mixed with heavy oils. Other products are designed to effectively clean either soils or heavy oils, but not necessarily both. Powerful surfactants & wetting agents aggressively penetrate through almost any kind of soil, leaving it soft, pliable and easy to rinse. Powerful yet safe synthetic & organic solvents break up & emulsify heavy oils such as bitumen and tar. Designed to inhibit corrosion, eliminate static electric charge, and prevent the redistribution of soils. For invert mud, dirt mixed with heavy oil, tar sands or any other scenario with such mixtures.

**Product Applications**

- ) Oil sands, bitumen, heavy crude, Industrial grease
- ) Heavy haulers, shovels, dozers, Graders, backhoes, loaders
- ) Engine compartments, undercarriages
- ) Swing gears, suspensions, hydraulic tanks
- ) Pumps, motors, light vehicles
- ) Oilfield equipment, service rigs, downhole tools, BOPs
- ) Mining equipment (underground & surface)
- ) Sludge & oilfield tanks – asphaltenes, waxes & heavy oil buildup
- ) Heavy manufacturing – steel plant, tire plant, rubber plant
- ) Pipeline manufacturing and repair
- ) Oil & Gas refineries & Smelters