



ACL-BS610

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**BIOSOL 610****TECHNICAL DATA****GENERAL DESCRIPTION:**

BioSol 610 is a unique alternative to petroleum-based, fluorinated and chlorinated solvents designed for degreasing contaminated metal, steel, alloys and painted structures. It efficiently dissolves and removes grease, oil, tar, crude oil, paint/undercoating over-spray, lubrication fluids, organic oil/fat, paraffin and adhesives. It is also used for maintenance cleaning of mechanical parts prior to service.

While BioSol 610's physical properties may appear to be quite similar to petroleum solvents, it contains an aggressive blend of organic, inorganic and synthetic solvents, two of which are derived from naturally occurring renewable sources. It also has an advanced blend of self-splitting surfactants that release waste oils within minutes once the job is done. This is an attractive feature for reclaiming purposes and oil/water separators.

**PERFORMANCE:**

While BioSol 610 contains additives that provide emulsification properties to an extent, the product is primarily designed for maximum solvency, which is the capacity to reduce viscous substances to a liquefied state. Many such soils are readily dissolved under unheated or room temperature conditions. However, stubborn soils such as high melting point waxes and heavy oils may require rinsing at elevated temperatures to prevent them from solidifying once dissolved. In most cases, particularly in undiluted form, BioSol 610 performs as well or better than petroleum distillates and butyl-based solvents. Diluted to 3-parts water, these performance characteristics will remain about the same, depending on the type and extent of contaminants. The product can be diluted further for less viscous, fresher oils.

**PERSONNEL SAFETY:**

In concentrated form BioSol 610 has a very low order of acute oral and inhalation toxicity. All product constituents appear on the Domestic Substances List (DSL), and none are listed as suspected or known carcinogenic compounds. The product does not contain chlorine, fluorine, butane, benzene, toluene, MEK, or other such components that can seriously impair employee function, reaction time, and comfort. Standard safety glasses and gloves are recommended only as a safeguard against drying of skin with prolonged exposure. Incidental spillage can be diluted with water and safely flushed to the municipal sewage system as the product is readily biodegradable.

**ENVIRONMENTAL ATTRIBUTES:**

The "Montreal Protocol" introduced in 1987 launched a worldwide phase-out in the production and use of ozone-depleting chemicals. BioSol 610's primary solvent oxidizes very rapidly, and with an atmospheric lifetime of 48 hours, ozone-depletion potential is rated at zero. The product's evaporation rate of the product's co-solvents and additives are approximately 50% that of water. As such, the same rating applies. Further, the carbon atoms that collectively characterize these solvents are taken from the atmosphere and used by vegetation in the form of carbon dioxide. Therefore, BioSol 610 does not contribute to global warming in any way.

Since BioSol 610 degrades just as readily in ground soil and surface waters, it is not recognized as a pollutant according to Environment Canada, Alberta Environment or the United States EPA.

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**BIOSOL 610****TECHNICAL DATA**

BioSol™ 610 is 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 610 to quickly dissolve oil, grease, asphaltenes, wax, adhesives and organic materials. And, a special blend of additives ensures a clean, residue-free rinse.

**BioSol™ 610: Performance Without Compromise!**

Most industrial cleaning solvents are as hard on the person using them as they are to the environment. Almost without exception, industry has relied on halogenated, chlorinated, fluorinated, petroleum or oxy solvents to finish the jobs that water-based detergents can only start.

Today, with employee and environmental safety at the forefront, people came to us looking for an answer. They wanted a viable replacement to hazardous solvents that delivers optimum performance, and the safety they deserve. We responded with 610.

**Performance Features & Benefits**

If there's a better way of doing something, why not do it?  
610 is the safer way of getting it done:

- 100% biodegradable, high solvency
- No special handling requirements
- Reduces risk, improves worksite safety
- No chlorinates, butyls or halogens
- No phosphates, acids or distillate's
- No carcinogen's or hidden toxins
- Not regulated under dangerous goods
- Non-corrosive, free-rinsing, no residues
- 100% active, high soil loading capacity
- Fast drying, ozone friendly
- No petroleum distillate's
- Can be diluted with water

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**BIOSOL 610**

**TECHNICAL DATA**

**Product Applications:**

With a performance-proven track record to it's credit, doesn't your crew deserve 610?

- Paving equipment, vehicles & machinery
- Marine vessels, storage tanks, turbines
- Oilfield service rigs, downhole tools
- Oilfield equipment, bulk carrier tank cleaning
- Machine shops, steel fabricator's
- Road construction, heavy machinery, tar removal
- Aircraft maintenance, tool soak
- Mining equipment, automotive detailing & repair
- Pulp mills, mobile shops, wood rooms
- Oil tanks, cylinder heads, generators
- Cargo holds, bilges, slop hoses, oil tanks
- Crude oil, asphaltenes, bitumen, road tar
- Grease, distillate's, mineral oils, paraffin's
- Bilges, oil tools, parts cleaning

**Directions for use:**

When diluted, this product splits from water within several minutes. Shake well or agitate prior to each application. See chart for recommended dilution rates. Apply with hand sprayer, mechanical applicator or pressure washer.

Industrial applications: In cases of heavy or weathered deposits, power-off with high pressure before application of product. Apply and allow to soak 3 to 5 minutes. Additional soak time may be required for especially stubborn areas. Rinse well with highest pressure and temperature available.

Parts washers, ultrasonic and dipping tanks: Ensure tank is clear of all solvents, sludge and oxidizing materials. Allow usual amount of time for soaking. Rinse well. Replace with new product as required.

**BIOSOL 610**

- Suggested Dilution Rates –  
(Parts Water : Parts Product)

**OILFIELD & INDUSTRIAL MAINTENANCE:**

APPLICATION	MIN.	MAX.
Pavers, hoppers, tar pots, shovels, trucks, beds, gear grease	Straight	1:1
Pressure washing, rig wash, invert mud tanks, oil tools	1:1	2:1
Wireline, cable, wellheads, oil tanks, blocks/swivels, BOP's	1:1	3:1
Motor wash, soak tanks, turbines, concrete stains	3:1	5:1
Shop floors, walls, hand tool cleanup, laundry additive	5:1	10:1

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**BIOSOL 610**  
 - Suggested Dilution Rates –  
 (Parts Water : Parts Product)

**PULP MILL MAINTENANCE:**

APPLICATION	MIN.	MAX.
Pressure washing, equipment overhaul preparation	1:1	3:1
Ink/dye removal, pulp machine framework, parts washing	3:1	5:1
Wood room, pitch tar, sumps, rollers, mobile shops	5:1	20:1

**AIRCRAFT & FLEET VEHICLE MAINTENANCE:**

APPLICATION	MIN.	MAX.
Electronic circuits, axle grease, gear grease, glycol	Straight	Straight
Landing gear, brake dust, hydraulics, lubricating oils	3:1	5:1
Fuel spills, tarmac, residual carbon, exhaust removal	3:1	5:1
Engine degreasing, paint overspray, undercoating tar	3:1	5:1

**MARINE VESSEL MAINTENANCE:**

APPLICATION	MIN.	MAX.
Heavy-duty bilge cleaning	1:1	5:1
Heavy hydrocarbon tanks: i.e. crude, asphaltenes, lubes	1:1	5:1
Engine room, slop hoses, residual carbon and soot	1:1	5:1
Medium hydrocarbon tanks: i.e. light crude, mineral oil	2:1	5:1
Light-duty bilge cleaning	5:1	10:1
Light hydrocarbon tanks: i.e. fuels, distillates	5:1	10:1
Natural oil tanks: i.e. Animal, vegetable, fish, organic matter	5:1	10:1