



ACL-BSSDSW

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BIOSOL SDS-W**VAR SOL REPLACEMENT****TECHNICAL DATA****BACKGROUND:**

BioSol *SDS-W* is a high-performance, synthetic hydrocarbon solvent commonly used as a substitute for petroleum distillates. Its aggressive degreasing power would suggest that it is hazardous both to the user and the environment, where in fact it is not. BioSol *SDS-W* is the product of advanced, synthetic chemical engineering. This bulletin is intended to offer direction as to the proper handling and use of *SDS-W*.

PERFORMANCE:

The product's solvency rating (KB value) of 76 more than double that of petroleum distillates. This allows it to aggressively dissolve hydrocarbons (heavy oil, grease, tar, asphaltene's, pipe dope, lubricating oils, distillates and cutting fluids) with relative ease. A pure solvent, it does not contain hazardous additives to enhance degreasing power (caustic, acid, halogens, chlorines, fluorine's, nitrogen, sulfur or oxygenated compounds). It is non-corrosive, thus suitable for use on metal, steel, aluminum and alloys. Product loss to evaporation is minimal, it is not regulated under Transportation of Dangerous Goods legislation (TDG).

EFFECTS ON SKIN:

Solvents dissolve oils and do so without discretion. Natural body oils are no exception. Consequently, BioSol SDS-W can cause drying of exposed skin, especially the soft fatty tissues of legs & underarms. Severely dry skin can resemble a "burn" both in terms of sensation and appearance. This is easily reversed by washing with a mild soap, followed by applying a moisturizing lotion containing aloe Vera or vitamin E to replenish lost oils. With some simple workplace hygiene, BioSol SDS-W presents none of the safety risks normally associated with hazardous products. Soaked clothing should be promptly removed & laundered before re-use. Impervious gloves and safety glasses are recommended to avoid prolonged or repeated contact and drying of skin.

EFFECTS ON RUBBER:

BioSol SDS-W dissolves the molecular structure of many kinds of petroleum hydrocarbons. Soft plastics, natural rubber, styrofoam and other such petroleum by-products are subject to severe deterioration. Nitrile, PVC, nylon or neoprene gloves are recommended for sure grip and durability. Boots made of high-density rubber with thick soles will withstand prolonged contact with the solvent and improve traction. Regularly rinsing work wear to remove solvent will prolong the life of the material.

ODOR:

Product fumes are not toxic, nor do they contain hidden toxins that can impair worker safety or reaction time. However, the product's odor can be a source of irritation to some individuals, especially in areas with little or no ventilation. Adequate ventilation or limiting the product's use to outdoor applications is suggested. Soaked clothing should be removed and laundered regularly.

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BIOSOL SDS-W**VAR SOL REPLACEMENT****TECHNICAL DATA****ENVIRONMENTAL SAFETY:**

BioSol SDS-W has been evaluated for biodegradability in natural microcosms and shake flask CO² evolution assay. The product degrades in natural water and continues to complete mineralization under aerobic conditions. It has no ozone depletion potential and will not contribute to global warming. Further, it is recognized by Alberta Environment as being non-hazardous and non-polluting. Therefore, when used as directed, there are no risks of environmental impact or corporate liability.

BioSol™ SDS-W is the very latest in synthetic solvent technology and your best bet for heavy degreasing, even in biting-cold operating conditions. It cuts heavy oil, wax, asphaltene's, lube oils and grease without compromising the health and wellbeing of your personnel or the environment. And, it's not controlled under Transportation of Dangerous Goods legislation (TDG) so it can be shipped anywhere by the carrier of your choice.

BioSol™ SyntheSol SDS-W: Beats Winter...COLD!

There's no two ways about it: North American winter's can be long and bitter. When it's that cold outside and you have a job to do, your bottom line is getting it done fast! Petroleum solvent has likely been your old standby, but if you've been asked not to use it - or would rather not for your own reasons - you do have a choice.

These days it makes sense to use something that's non-flammable, non-carcinogenic and completely biodegradable, provided it works as hard as you do. Old Man Winter won't be giving you a break this year, so use something that will. Remember the name: SDS-W. The "W" stands for Winter Formula. It also stands for Workhorse!

Performance features & Benefits:

SDS-W delivers all the degreasing power you need, worry-free:

- Not controlled under TDG
- Non-flammable, inhibits spot rusting
- Biodegradable, ozone friendly
- No chlorinated or fluorinated solvents
- No halogens or phosphates
- No petroleum distillate's, phenols or butyl
- No carcinogen's, non-conductive to 40KV
- Ozone-safe, no global-warming potential
- Lasts 5 - 7 times longer than petroleum solvents

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BIOSOL SDS-W**VAR SOL REPLACEMENT****TECHNICAL DATA****Product Applications:**

SDS-W is up to the task, whenever and wherever you need it most:

- Drilling & service rigs, oil tanks, well heads
- Internal draw works, blocks, swivels
- Water cuts, meter cooking
- Wireline trucks, bulk carrier tanks
- Casing, drill pipe threads, filters
- Construction equipment, radiators
- Parts cleaning, oil tools, fishing tools
- Cargo tanks, bilges, slop hoses
- Heavy oil, bitumen, asphaltines, tar
- Grease, pipe dope, lubes, distillate's

Directions for use:

SDS-W does not contain water and is not water-soluble. Use direct from container. Odor and fumes can be irritating to the upper respiratory system. Ensure area is well ventilated. Apply with hand sprayer, pressurized applicator, mop, or scrubbing brush.

General use: In cases of heavy, solidified or weathered deposits, power-off excess residue with high pressure before application of product if possible. Apply and allow soaking 3 to 5 minutes. Additional soak time may be required for solid deposits. Wipe or rinse well with highest pressure and temperature available.

Agitation, ultrasonic and dip tanks: Ensure tank is clear of all solvents, sludge, and oxidizing materials. Allow usual amount of time for soaking. Regular skimming of floating deposits and draining of submerged sludge will extend product life. Wipe, air knife or rinse well. Replace with new product as required.

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