



CSES-8500 SERIES

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION: Reliquification Product

The *CSES-8500 Series* are members of the OMNI-Solv series of products. The *OMNI-SOLV* series introduces a newly developed product line that offers solutions to many hydrocarbon, paraffin and asphaltene based problems. The products combine a unique blend of surface-active compounds with several proprietary solubilization chemistries that are derived from an environmental waste stream. Furthermore, the product line is now “*Driven by Nano Muscle*”. Due to their size, the nano-engineered reliquification particles drive the proprietary blend of liquification chemistries into even the toughest deposits, providing superior dissolving and reliquification capabilities. Now deposits across a vast spectrum, even with minimal flow or agitation, can be addressed. **Optimize your process through a Green Initiative!**

APPLICATIONS

CSES 8500 & 8510: *Petro-Recover 8500* is for Paraffin-based sludges, while *Petro-Recover 8510* is for Asphaltene-based sludges. These two products are designed specifically for reliquifying or remediate petroleum (hydrocarbon) based sludges, sediment and solids. The hydrocarbon chains are reliquified, the viscosity reduced by 80% or more and the API gravity increased. The oil is not harmed and the product does not require removal prior to refining. Typically, a recovery rate of over 95% of the available hydrocarbons is achieved.

For treating tank bottoms, it is recommended that 1-5% plus 1-4% carrier based on volume of crude/sludge should be spotted on the bottom to soak for 24-72, depending on sludge depth. If possible, then the tank solution thoroughly mixed by rolling the tank or using external circulation. Heating of the tank is not necessary, although helpful.

CSES 8520 is a product designed specifically for treating various slop oils. In addition to the viscosity and API features of CSES-8500, CSES-8520 provides demulsification, thus easier water and solids separation. It also allows for a higher percentage recovery of the available hydrocarbons. It can be used with other technologies and/or heating for troublesome wastes. Bench testing for specific dosages is recommended.

CSES 8530 is a product designed for the pre-treatment of SAG-D wells, specifically the initial process of getting the wells to “communicate”. Use of the product speeds the dissolution of bitumum and similar heavy oil deposits. As such, the amount of steam is greatly reduced and the time line for start-up minimized. Once on-line, the SAG-D well can be switched to CSES-8520 to allow for viscosity reduction of the produced oil. 2000-5000 gallons pumped down the well, then allowed to soak for one week is recommended. After a week, heat can be applied and increased gradually until break-through occurs.

TYPICAL PHYSICAL PROPERTIES

- AppearanceHomogenous, non-viscous liquid
- Color.....Light Brown
- Odor.....Citrus
- Solubility.....Water Dispersible/Oil Soluble
- pH Neat.....8.3
- Specific Gravity.....0.92
- Flash Point.....93°F
- Pour Point.....<-20°F

FEATURES AND BENEFITS

- Increased Oil & Gas Production
- Does not require removal prior to refining
- Reduces Pumping Fees
- Does not require heating
- Provides Demulsification
- Rapid Clean-up
- Reduces oil viscosity
- Reduces under deposit corrosion
- Prevents redeposition

STORAGE AND HANDLING

Aspiration hazard if swallowed. Inhalation of mist may produce severe irritation of the respiratory tract. Do not induce vomiting if swallowed. Safety glasses and gloves, as a minimum, are recommended when handling. Keep Container closed when not in use. Store product in a dry and cool area. Refer to the *CSES Series* Safety Data Sheets (SDS) for other safety and handling information.

PACKAGING

The *CSES 8500 Series* products are shipped from the manufacturing facility and regional distribution centers in 5 gallon and 55 gallon containers. Bulk quantities are available upon request.

ADDITIONAL INFORMATION

If you need additional information, please contact our offices.