



Nanotechnology through Colloidal Micelles

PureAg® BioSurf is an extremely effective colloidal green chemistry cleaner that breaks down and removes dirt and hydrocarbon soils on contact. It immediately begins degrading long chain hydrocarbons, cutting the hydrogen bonds, thereby isolating individual molecules.

This process renders the now short chain hydrocarbons easily digestible to resident bacteria. The effluent and encapsulated hydrocarbons will degrade almost completely within 28 days.



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PureAg BioSurf Surfactant/Emulsifier

- * Emulsifies and encapsulates fuel and oil spills
- * Penetrates and breaks down long chain hydrocarbon bonds in oils and holds them in suspension
- * Colloidal suspension stops reverse emulsion as oil or fuel becomes water soluble
- * Defoamer, viscosity reducer and gel fragment emulsifier
- * Non-ionic surface active agent and detergent.
- * Plant derived ingredients are safe, biodegradable, and environmentally friendly.

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Principal Functioning Agents: 65%

Alkyl Polyglucoside, Ammonium Laureth Sulfate, Sodium Lauryl Sulfate, Coconut Fatty Acid

Constituents Ineffective as Spray Adjuvants: 35%

USES

PureAg® BioSurf is a unique blend of water based and ultimate biodegradable ingredients specifically formulated to quickly emulsify and encapsulate fuel and oil spills. These plant derived ingredients are processed to form a colloidal micelle whose small particle size (1-4 nanometers) enables it to penetrate and break down long chain hydrocarbon bonds in oils and hold them in colloidal suspension when mixed with water. Once oil reaches nano-colloidal suspension, there is no reverse emulsion as the oil or fuel becomes water soluble.

PureAg® BioSurf is a defoamer, viscosity reducer, and gel fragment emulsifier. Some of the nano-emulsion uses are micellar solutions of fatty acids (such as tall and coconut oil fatty acids), a polysorbate emulsifier, a non-ionic surface active agent and a non-ionic detergent.

DIRECTIONS / APPLICATION GUIDE

This product is a concentrate and must be diluted with water. Please consult your PureAg® consultant to help with application and directions.

Dilution Rate:

2 ounces (29.5 mL) to 200 gallons (757 L) water.

Store in a cool, dry place. Avoid low temperatures. Best if applied within 2 years of purchase.

Manufactured by PureAg® LLC
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