

# Eco-Proven Cleaner

## Hyper Activated Water Concentrate

### Technical Data Sheet

#### **Product Description : Eco-Proven Concentrate**

##### **What is it?**

A proprietary blend of plant based ingredients using nanotechnology; creating ionic and anion compounds that turn nature's most prolific and environmentally friendly solvent – water – into a degreaser, deodorizer and superb cleaner. The cleaning agent has no hard chemicals. It is 99.9% biodegradable. Simply put; detergents are made from petroleum products and soap is made using lye. Eco-Proven is often referred to as a cleaner but because it is not a soap or a detergent, its uses are not limited to just cleaning.

##### **How it works**

When added to water (the concentrate will NOT work without water) the resulting colloid type solution converts oils and greases to fats and fatty acids; including breaking down sulphur based odors. The colloidal micelles will continue to work by breaking down the hydrocarbons into fatty acids and exposing them to the resident bacteria. This product encapsulates and will also suppress VOCs as it cleans. Due to its unique formulation, Eco-Proven works in hot or cold, fresh or salt water. It can be mixed with alkalis, salts of various types and certain types of additives and many cleaning jobs which formerly required a special compound can now be accomplished with a single product.

##### **Colloidal Action**

Colloids are electrically charged sub-microscopic particles called micelles. The electrically charged particles repel each other in a ceaseless random movement which works to break up grease and soil molecules. They continually pass through other molecules in their path, breaking them apart and disrupting the molecular bonding of organic compounds.

## **What are Colloids?**

A Colloid in a liquid solution measure 0.000,000,01 centimeters (nano) and cannot be seen by the most powerful microscope, however they reflect light rays that can be detected by complex electron microscopes. This product contains a homogenous blend of colloids, sterilants, bacteriostatics, sequesterants, surfactants, chelates and hyper-wetting agents that by unique process of formulation and concentration becomes hyper-active water.

## **How Colloids Work**

Solid soil particles are attracted to colloids, but what might be described as a magnetic force field. When the attraction of the colloids becomes greater than the force holding the solid particles together, or to a surface, they are dispersed into individual particles that do not have the ability to re-deposit.

That is to say, when colloids penetrate into dirt, greases, oils and other soils, they break it up into billions of individual particles that constantly repel each other, making it impossible to recombine or redeposit on a surface. Its colloid hyper action keeps on working as long as there is even a microscopic amount of water present. The power of colloid in cleaning compounds is amazing in the extremely wide range of jobs it will do, without the undesirable side effects of other cleaners.

Water molecules are attracted to colloids much like a magnetic field. When the attraction of the colloids becomes greater than the force holding the water molecules together, they disperse into individual

particles. The power of the colloid is amazing in that it works without the undesirable side-effects of petrochemical dispersants.

### **Example**

An excellent example of a colloidal action is in fog. To the casual observer, fog is nothing more than a cold wet nuisance. However, to the trained observer, for billions of tiny droplets of water so close together that they obstruct vision. They are always rolling in constant movement, but they never collide and fall out like raindrops. This is one of the few places that the movement of colloids can be observed. The tiny droplets of water that make fog are attached to colloids.