



Global Eco Products, LLC

COLLOIDAL CHEMISTRY, ECOPROVEN & the SARS-CoV-2 VIRUS

Even though most people have not heard of colloidal chemistry, it is very common in the world around us. Milk, ice cream, jelly and jams, mayonnaise, soaps, detergents, cosmetics, smoke, fog and clouds are all colloidal systems. The single most abundant resource on earth, “salt water”, is a colloidal solution. In fact, the very blood that flows through our body is a colloidal solution.

Colloids are mixtures in which one or more substances are dispersed as either solid particles or liquid droplets throughout a another solid, liquid, or gaseous medium. The particles of a colloid remain dispersed (in suspension) and do not settle due to gravity, and they are often electrically charged.

Colloids are electrically charged sub-microscopic called micelles, that possess a very profound ability to reduce or penetrate surface tension. Their physical action is electrical in nature (with each end possessing an opposing charge) that along with its size can easily penetrate certain biological membranes. The charged particles repel each other resulting in random movement, which works to break up oil, water molecules or in this case the outer lipid membrane surrounding the SARS-CoV-2 virus. They continually pass through other molecules in their path, breaking them apart.

Water molecules are attracted to colloids much like a magnetic field. When the attraction of the colloids becomes greater that 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. Its colloid super action keeps on working as long as there is even a microscopic amount of water present

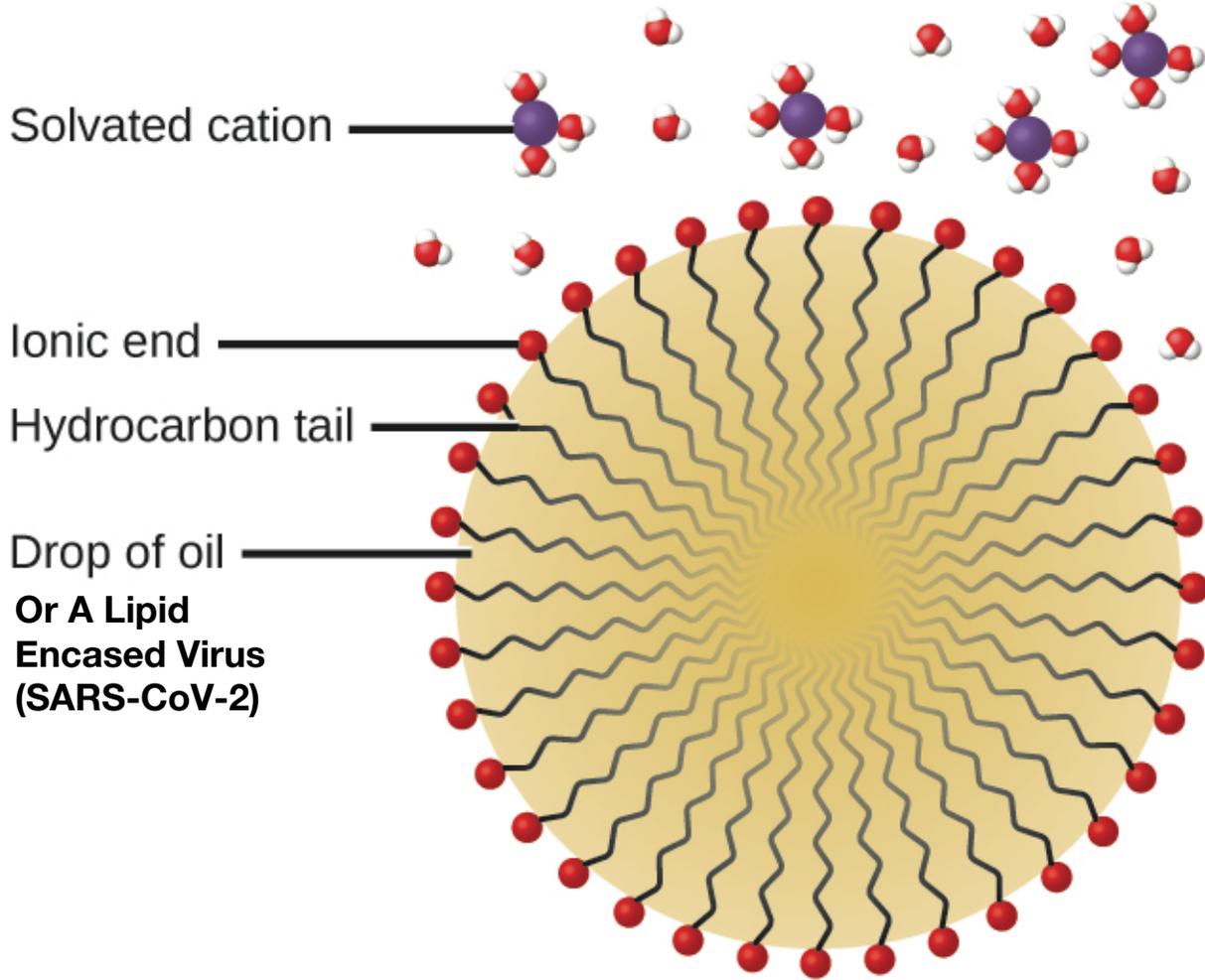
EcoProven's colloidal solution contains sub-molecules (micelles) with a non-polar hydrocarbon end and an ionic end. The cleaning action and the virus destroying action of EcoProven can be explained in terms of the structures of the molecules involved. The hydrocarbon (non-polar) end of an EcoProven molecule dissolves in, or is attracted to, non-polar substances such as oil, grease, dirt or in this specific case, the lipid outer covering on the SARS-CoV-2 virus. The ionic end is attracted by the polarity of a water molecule. As a result, the EcoProven molecules become oriented at the interface between the virus and the water so they act as a kind of bridge between two different kinds of matter, non-polar and polar. Molecules such as this are termed amphiphilic since they have both a hydrophobic ("water-fearing") part and a hydrophilic ("water-loving") part.

As a result of colloidal activity, the SARS-CoV-2 virus becomes surrounded and suspended by EcoProven molecules. The outer lipid membrane of the virus is shredded and the virus is destroyed by the continual movement of the charged particles randomly passing through it, over and over again.

This action is very similar to the very successful military strategy of luring an enemy into crossfire. A deadly crossfire makes it all most impossible to escape. In the same way, the EcoProven molecules surrounds the virus and destroy it with a deadly crossfire of ionized colloidal micelles.

This following diagrammatic cross section of an emulsified drop of oil in water shows how soap or a detergent acts as an emulsifier. This is also the very same way that EcoProven colloids surround and destroy the SARS-CoV-2.

* - The diagram below is contained in the book "Chemistry" by Rice University.



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