

Sanitizer & Disinfectant Generator: A Step towards fighting COVID-19

Ever since Coronavirus came into light last December, it is testing the will and patience of every human being on the planet. Ellen H. Gates once said, “*Do not then stand idly waiting, for some greater work to do*”. The time has come where you don’t have the luxury to sit ideal. It is time to shoulder the weight of those who are in need.



Though we need to maintain social distancing to keep ourselves and others around us safe, we also need to be more considerate towards others.

Necessity is the mother of innovation

We, at Rite Water Solutions, firmly believe in standing our ground in the face of adversity. In that spirit, we have developed a product for achieving the well being of those fighting the crisis at the forefront. They are attempting to bring this rapidly spreading disease to a manageable level and we are doing all we can to help them.

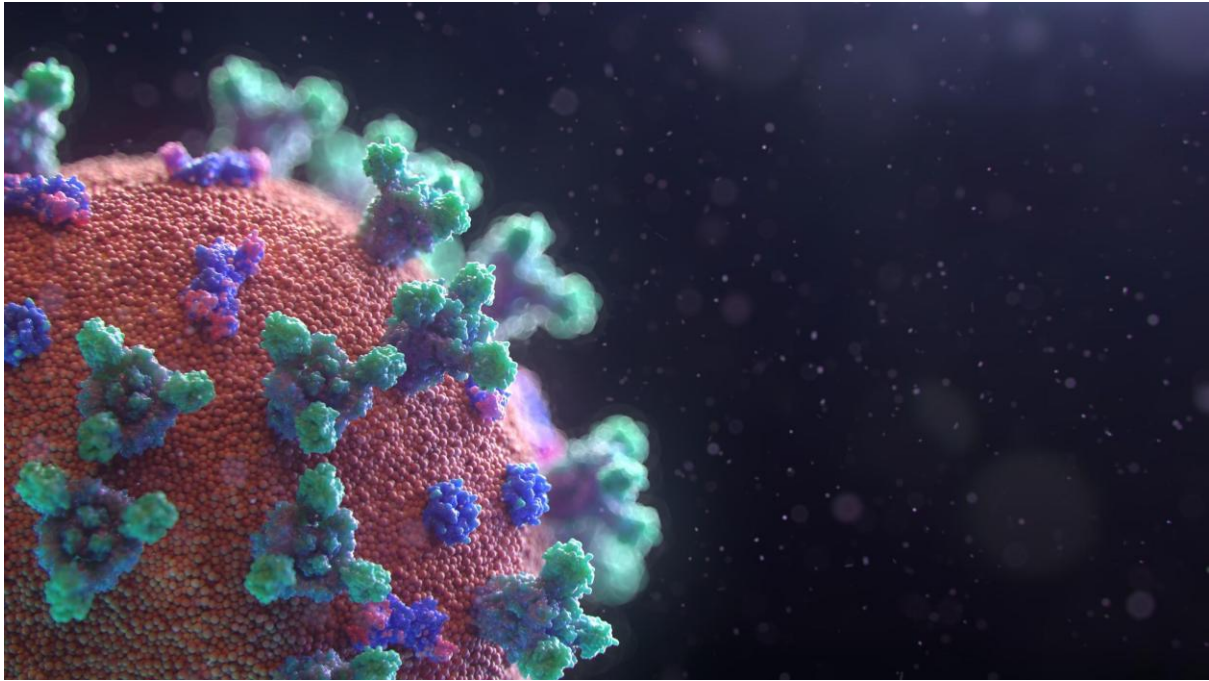


Being an organization that specializes in chemical treatments, we have devised a solution to disinfect places and people for precautions against the spread of the novel coronavirus.

Chlorine as a Disinfectant

Chlorine is one of the most reactive halogens and forms compounds with other substances instantly. It can react with otherwise non-reactive substances.

It is an element that can be easily found in the environment - in water bodies or medicinal herbs. It is also relatively cheaper and is quite effective when it comes to killing microorganisms, viruses, and bacteria.



WHO and UNICEF recommend the use of **0.5% chlorine solution for disinfection** of surfaces and **0.05% chlorine solution for hand wash** for protection against coronavirus.

By this insight, Rite Water Solutions have introduced a new product to fight the ongoing pandemic - **ENCEE CHLOR® Sanitizer & Disinfectant Generator**.

It is, essentially, a setup of three individual parts as shown below:



It is a unique on-site generator of Sodium HypoChlorite, a very strong disinfectant. It is an ideal, convenient, and economical solution for sanitation against viruses (including coronavirus) and bacteria.

Key Reaction:



Where sodium chloride mixed with water and electricity gives a hypochlorite solution and a little amount of hydrogen gas.

How to make a sanitizer using this solution:

Step 1: Add salt and water to the reactor and switch on the power supply (230V, 1Ph).

Step 2: After 8 hours, electro-hypo is generated which can be used as a disinfectant.

Step 3: Transfer hypo in a separate tank and Add water for dilution (100-5000ppm).

This process gives you potent sanitizers that can be used to wash hands and clean floors.

ENCEE CHLOR Models	EC-S:25	EC-S:50	EC-S:100
Electro Hypo Production/Batch	25 Ltr	50 Ltr	100 Ltr
Batch Time	8 Hr	8 Hr	8 Hr
Edible Salt required / batch	750 gms	1500 gms	3000 gms
Electro Hypo Concentration (%)	0.80%	0.80%	0.80%
SANITIZER PRODUCTION			
Sanitizer vol Ltr @ 5000 ppm ,0.50%	40	80	160
Sanitizer vol Ltr @ 500 ppm, 0.05%	400	800	1600
Sanitizer vol Ltr @ 100 ppm, 0.01%	2000	4000	8000

Application of the resulting disinfectant:

- Cleaning surfaces and objects like mobile and TV screens
- Area Sanitation
- Cleaning clothes and pieces of equipment
- Cleaning fruits, vegetables, and store-bought groceries.
- Washing hands
- Disinfecting drinking water.

We at Rite Water Solutions are putting in our best efforts forward to help our communities to stay safe, strong, and healthy. It is a time to stand united against the novel Coronavirus and become more human in not only protecting fellow beings but also to save water and nature at large.