



**PRESS STATEMENT BY THE PRESIDENT, FEDERATION OF SOUTH EAST ASIA FUMIGATORS ON THE  
OUTBREAK OF EBOLA VIRUS.**

**Title: Are control measures effective or are we taken for a ride by spray operators?**

Manufacturers of disinfectants such as brand names of Lysol, Chlorox or Dettol claim their products have 99.9% kill to various types of harmful viruses, bacteria and germs in their mandatory labels presumably with the permission of the relevant authorities. These of course, must have been substantiated and undisputed since aggressive tests need to be procured and acclaimed by virulent scientists.

Although the science of these products are unblemished and immaculate, it must be made known in the open market there is no manufacturer rightly at this juncture would guarantee their products are flawless even if applied with the proper dose and formulation in accordance with their label. None will warrant there will be no further outbreaks of diseases or syndromes associated with lethal viruses. Why? The efficacy of a particular disinfectant rests much on the art of application, the tools, gadgets, technology and equipment in proper use. The conventional method of dispensing is either by spraying or wiping at strategic areas to provide an instant kill to the viruses but then may not necessary be a 99.9% coverage of the treated zones especially to airborne viruses whereby in these cases space spraying with droplets of 40-60 microns will be the most logical and appropriate method of application. However, there is a great limitation to such convention sprayers as the droplets required are unable to reach the areas where viruses tend to harbour. Take for example door knobs, latches and compact toilets (as in aircrafts) the sprayed droplets will not reached and attached to the back of them as the space in between the gaps is too little for the droplets to cover. Viruses being virulent and coupled with their relentless multiplication, even a 5% uncover infested zone is enough to negate such treatments.



## **Conventional spraying Methods**

### **The Electrostatic Sprayer (ESS)**

The latest innovative electrostatic sprayer (ESS sprayer) for dispensing disinfectants has proven to disperse these chemicals to all the previously impregnable and hard to reach areas where viruses are known to harbour. Air and liquid formulations according to label enter the rear of the nozzle separately. The air moves through the nozzle under pressure and meets the liquid at the nozzle tip, causing the formation of spray droplets that are 40 to 60 microns in diameter. At the tip of the nozzle is a tiny electrode which applies an electrical charge to the spray. The electrical charging causes a natural force of attraction between the spray droplets and target surface, similar to the attraction between items of clothing created by the tumbling of clothes dryer. The attraction to the target's surfaces, with the two charged objects will thus create a force on each other. The charge on the droplets, though small, pulls the spray towards the target at 75 times the force of gravity. The spray droplets can reverse direction, moving against gravity, to coat all sides of an object.



**ESS disinfecting hospitals.**

## How ESS works



**At the tip of the electrostatic nozzle dispenses the negative charged microns which will encapsulate and enveloped the positive items.**

It is pertinent that the Malaysian authorities approach this outbreak although at this point may still be farfetched, with proactive measures of viable control. The Ebola outbreak is more lethal than SARS as 90% of infected patients will not survive this attack and even the 10% who may survive may not live normally for the rest of their lives.

All of us are mutually responsible and it is our fervent hope that Ebola will not arrive at our shores but if it does come, may we be prepared and ready to control this deadly disease.

For a better understanding on how ESS works, please log onto this you tube video

<http://www.youtube.com/watch?v=RRn0mEqFOaQ>

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PS: The above article is the personal views of the author.