



Approved

### Safety Evaluation for Hygen Ultra 275

“We have found that a spray of 10 ppm aqueous solution of Chlorine Dioxide does not cause irritation on skin or in mucous membranes. Within half minute of spray, Chlorine dioxide spray completes its decontamination action and its level in the air falls below permissible limits. A ClO<sub>2</sub> concentration of up to 40 ppm in drinking water did not show any toxicity in a sub chronic oral toxicity test.”



## Hygen Ultra 275

A Virucidal Disinfectant Spray

ANOTHER QUALITY PRODUCT OF



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# HYGEN ULTRA 275 – THE MAGIC DISINFECTANT

## Efficacy of Hygen Ultra 275

 **Bacteria 0.01 PPM**

 **Fungi 0.04 PPM**

 **Viruses Upto 0.2 PPM**

- ❖ **Hygen Ultra 275** (ClO<sub>2</sub>) is a reddish to yellowish gas at room temperature that dissolves in water. It is a very strong disinfectant that can kill bacteria fungi, their spores and viruses. Owing to its effectiveness and broad spectrum, it is regarded as a sterilant.
- ❖ It is different from chlorine or other chlorinating agents, being much more effective than chlorine or hypochlorites and has much lesser side effects. It has the advantage of being a strong disinfectant without forming carcinogens like THMs.
- ❖ Its mode of action is different from chlorine. It inactivates respiratory viruses through direct oxidation of tyrosine, methionine, or cysteine containing proteins present in the viral envelope.
- ❖ The virucidal concentration against various respiratory viruses range 0.05-0.2 ppm<sup>3</sup>.
- ❖ It is well-known for killing Corona virus, Spanish flu Virus H1N1, avian influenza H5N1, swine influenza and other respiratory viruses.
- ❖ For preventing the spread of respiratory virus, one effective measure is eliminating and/or deactivating the respiratory virus floating in the room (in the air). This can be achieved through fumigation or spray.
- ❖ In case of viral spread, it is recommended to use it to decontaminate public buildings.

### Instructions for use (Hygen Ultra 275 comes as a 200 PPM solution which should be diluted based on intended use)

- ✱ Sterilization of Contaminated Rooms/Buildings: Spray without dilution (200 ppm) & keep door/windows closed for two hours
- ✱ Normal Houses and Offices: Spray 1:5 dilution (40 ppm Hygen Ultra 275) i.e. 1 part Hygen Ultra 275 and 5 parts Water
- ✱ Roads and Markets: 1:5 dilution (40 ppm Hygen Ultra 275)
- ✱ Inside Quarantine Centers and Hospitals: 1:20 dilution (10 ppm Hygen Ultra 275)
- ✱ Walk-through Gates and Tunnels: 1:20 dilution mist spray (10 ppm Hygen Ultra 275)
- ✱ Washing/Disinfection of Fruits and Vegetables: 1:20 dilution (10 ppm Hygen Ultra 275)
- ✱ Soaking of Contaminated Clothes and Bedsheets etc.: 1:10 dilution (20 ppm Hygen 275)

Caution: Irrespective of the nature of disinfectant sprayed, never inhale the mist in the walk-through gates/tunnels.

