

AC ACTIVE OXIDANT – FOR COVID-19 DISINFECTION

CIO2 Disinfectant for Airports*, Police Stations, Hospitals, Communities

INTRODUCTION

In China, life is gradually returning back to normal as corona virus outbreak has slowed down. Highly effective CIO₂ Disinfectant (Active Oxidant) was/is being used to protect all sectors like airports, public transport, aircraft, clinics and medical centers, child care facilities, schools, hotel rooms, health clubs, spas, commercial centers as well as home and offices. It's to safely and effectively eliminate all microorganisms and provide a long-term sanitized environment for working and living.

Lube PetroChem, has teamed up with the Chinese Chemical Manufacturer, who supplied the same disinfectant to majority (Weifang city, Gaomi city & parts of Wuhan City) of the affected areas, mainly for Airports, Industrial Area, Community Roads, Police Station & Hospitals. It also helped to further stop the spread of Corona Virus. See real pictures on field and local TV media..



Freelance Logistics and PetroChemical Trading has brought this technology to GCC region and is now in position to supply Ready to use Chlorine Dioxide based Oxidant "AC Active Oxidant"

Lube PetroChem is UAE headquartered;

FORMULATION / CHEMISTRY

It is a Chlorine dioxide-based, using precursor Sodium Chlorite, along with weak food-grade acid solution like Citric Acid. It produces short-lived acidified sodium chlorite (ASC) intermediate which has potent decontaminating properties for hard surfaces by forming Chlorine dioxide as an active oxidant. Chlorine Dioxide is also one of the most effective oxidizing biocide and industrial disinfectant.

AC ACTIVE OXIDANT - KEY BENEFITS

- AC Active Oxidant shall be sprayed in outside environment, to mop the floors, and wipe the handles etc. It has similar effectiveness as Ethanol/ Propanol in killing the corona virus, However, the advantage of this product is it can be used in all environment, whereas alcohol can't be used in flammable area, Petrochemical environment & Kitchen etc.
- When availability of Ethanol/ Propanol is an issue – AC Active Oxidant is a better option and provides superior performance.
- AC Active Oxidant is more effective than conventional chlorine solution, one of the most commonly used surface disinfectants worldwide. Other chemistries such as alcohols or quaternary ammonium compounds (QACs) can provide reasonable efficacy against bacteria and fungi, but they are far less effective against viruses and mycobacteria

plus have no credible efficacy against bacterial spores in acceptable contact times.

- Chlorine dioxide (ClO₂) is as such used as both a disinfectant and an oxidant in drinking water treatment. It has several distinct chemical advantages, which complement the traditional use of chlorine in potable water treatment.
- Chlorine dioxide is highly effective in controlling waterborne pathogens while minimizing halogenated disinfection by-products. Chlorine dioxide is a broad-spectrum micro biocide as effective as chlorine against viruses, bacteria, and fungi, and more effective than chlorine for the inactivation of the encysted parasites Giardia and Cryptosporidium. Chlorine dioxide is also an effective control strategy for taste, odor, color, iron, and manganese removal.
- In hospitals and other healthcare environments, chlorine dioxide helps to sterilize medical and laboratory equipment, surfaces, rooms and tools. It is typically chosen for medical devices disinfection due to their speed and broad-spectrum efficacy.

IMPORTANT DO'S AND DON'TS

- Don't use the product for drinking water
- Don't spray it directly to clothes (it may decolorize)
- Please keep in shade and cool place, avoid exposure in sunshine and hot environment.
- Shelf-life of this product is 2-3 weeks (when stored under cool & dry condition preferably under 25 C)

* For Airports Chlorine Dioxide Disinfectant is recommended by IATA, Refer
<https://www.iata.org/contentassets/7e8b4f8a2ff24bd5a6edcf380c641201/airport-preventing-spread-ofcoronavirus-disease-2019.pdf>

FIELD APPLICATION DETAILS :

Dilute AC Active Oxidant 20 times with water i.e., add 20 liters of water for every 1 liter of AC Active Oxidant solution

- Cleaning staff should wear PPE like protective cover all, surgical mask, protective eyewear and gloves
- Diluted solution can be sprayed/ aerosolized for environment disinfection
- After disinfection, cleaning staff should wash their hands thoroughly & discard all PPE



FOR TRADE ENQUIRIES | TECHNICAL/SAFETY CLARIFICATION | PRODUCT APPLICATION METHODOLOGY

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