

With over 20 years of experience in the cleaning and sanitation business, we have always had the safety of our existing and prospective clients in mind. With our “Environmentally Safe and Professionally Clean” slogan, we are often motivated to be on the go by researching for methods that can best ease our clients from worrying about the environment they find themselves in by providing a comprehensive and more holistic technological ways of keeping their environment clean.

We wish to introduce our newly discovered chemical, Chlorine dioxide into our cleaning chemical family. Chlorine Dioxide can improve the environment in terms of sanitation of a wide range of sectors but not limited to oil and gas, food and beverage, Industrial buildings, greenhouse and nursery and hospitals among others.

What is Chlorine Dioxide

Chlorine Dioxide (ClO₂) is a stable, dissolved gas considered to be a strong bactericide and virucide at concentrations as low as 0.1 ppm. With minimal contact time, it is highly effective against pathogenic organisms such as Legionella, amoebal cysts, Giardia cysts, E. Coli, and Cryptosporidium. ClO₂ is also known to reduce biofilms so bacterial regrowth is significantly impeded and does not ionize to form weak acids (as chlorine and bromine do) in aqueous solutions. This allows ClO₂ to be effective over a wide pH range. ClO₂ is arguably the best biocide approved by the United States Environmental Protection Agency (USEPA) and Food and Drug Administration (FDA). Unlike chlorine, it does not form carcinogenic disinfectant by-products (THMs and HAAs), and it is more effective at lower dosing levels.

Uses of Chlorine Dioxide

Chlorine dioxide is used in municipal water plants to disinfect potable water and in wastewater treatment plants for oxidation and odor control. It is used in food and beverage plants for hard surface sanitation and fruit and vegetable processing.

It is also used in cooling towers and hospitals for legionella control, rendering plants for odor control, and in oil and gas water treatment as a biocide, among other common uses. In many instances, chlorine dioxide is replacing chlorine gas or bleach to meet higher performance standards or regulatory requirements. Chlorine dioxide is used to disinfect potable water around the world and is also approved for use by many environmental agencies around the world and the World Health Organization (WHO).

Chlorine Dioxide Application

Chlorine dioxide has been used safely in industrial and municipal applications for over 70 years. It is being used in a growing number of industries due to its highly selective oxidizing properties, which result in a lower dosage requirement. Chlorine dioxide has gained wide acceptance in the oil and gas industry for use in water treatment. Like many chemicals, there are safety concerns when using chlorine dioxide. However, at Greenpro, we have qualified workers with extensive training and an understanding of the chlorine dioxide chemistry. These workers are critical in the selection of the generation technology and have experience with applications in the field, which allow for a safe and effective chlorine dioxide treatment program.

We have a package for the following industries in terms of water treatment, hard surface cleaning, drainage sanitation and odour control using Chlorine Dioxide application at a moderate cost:

Hospitals

Industrial buildings

Food and beverage

Greenhouse and nursery

