GRAYSON

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Vibrex

SANITATION & PATHOGEN CONTROL

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Vibrex, a stabilised chlorine dioxide (ClO2), is becoming the most accepted and viable broad-spectrum sanitiser of today. It can be used across a range of industries to help maintain disease-free conditions in situations such as propagation, wash water sanitising and used as a hard surface sanitiser, keeping bacterial, algal and fungal growth under control.

Vibrex can also be used as a regular water treatment option, for the control of common nursery pathogens, such as Fusarium, Pythium and Phytophthora, and is the only sanitiser proven to control biofilm build up. Unlike other sanitisers, Vibrex will work over a broad pH range regardless of organic and bacterial loadings. This enables Vibrex to be used in all forms of water treatment including recycled water. Vibrex's versatility also enables uses such as drenching soil beds, foliar treatment and postharvest treatment to protect against all forms of viral, fungal and bacterial pathogens. It is also an effective mitigation strategy for taste, colour, iron and manganese removal.

KEY BENEFITS

- Broad spectrum biocide
- Effective against biofilms
- Effective against spores
- 2.6 times the oxidising capacity of chlorine
- Long lasting concentration residual
- Low concentration and contact time requirement
- Effective over a broad pH range
- Minimal effect from organic loadings
- Biodegradable and safe to the environment
- Does not form harmful by-products
- Microorganisms unable to develop resistance
- Safe, cost effective and easy to use
- FSANZ and APVMA Accredited

WATER TREATMENT AND BIOFILM CONTROL

Vibrex is excellent at sanitising irrigation water and removing/preventing biofilms. This will ensure nozzle/pipe blockages no longer occur and also safeguard against any bacteria, fungi, viruses or protozoa present in the water supply helping maintain stock quality and reduce losses. **Destroys common disease, causing pathogens such as E-coli, Listeria, Salmonella, Rotavirus, Cryptosporidium and Campylobacter.**

HARD SURFACE NON-RINSE SANITATION AND DISINFECTION

Vibrex is classed as a non-rinse sanitiser, meaning it's ideal for glasshouse disinfection, boot dips, tools or any other hard surface that may require sanitation while leaving no residue. It is also non-corrosive to carbon steel under most conditions.

POST-HARVEST SANITATION

Vibrex can be utilised during harvesting and packaging to protect against viral, fungal and bacterial pathogens while also maintaining biofilm free washing facilities.

Produce treated with Vibrex will remain fresh for much longer with a sharp reduction in spoilage pathogens. **Food Standards Australia/New Zealand (FSANZ) has approved the use of Vibrex as a processing aid used in washing for produce (CH 1. GFS 1.3.3 clause 12) Vibrex also has APVMA accreditation for water treatment and post-harvest applications.**

IRON & MANGANESE REMOVAL FROM WATER

Vibrex can easily and effectively remove soluble iron and manganese ions from water by precipitation followed by filtration. These metallic ions commonly result in staining, turbidity and taste issues in the water supply. While safely removing the metallic ions, Vibrex will also disinfect the water for a complete water treatment solution by inactivating bacteria, viruses, fungi and protozoa that may be present.

VIBREX FEED METHODS

Chlorine Dioxide can be produced by activating a stabilised ClO2 source with an acid or oxidising agent. The stabilised Chlorine Dioxide is generated at a dilute rate before being fed into the process at low concentrations. Given adequate mixing and distribution, the bactericidal effects of Chlorine Dioxide will eliminate any harmful pathogens with minimal contact time compared to other conventional biocides.

Chlorine Dioxide can be generated in a number of ways:

Batch dosing: Manual activation via mixing of the two required reagents together to produce Chlorine Dioxide which can then be added to your water source.

Automated dosing: Two reagents are dosed through a reaction chamber enabling generation of Chlorine Dioxide which is then injected into the process based on flowrate or residual concentration feedback.

Grayson supports a number of usage methods to suit various applications and different scale operations. For larger systems we encourage automated units to be employed. For other feed options or more information please contact a Grayson Australia representative.