

Wallace & Tiernan® Chlorine Dioxide Generation Systems

CD-2 Stabilized Chlorine Dioxide

CD-2 is an EPA-registered 2.8% active sodium chlorite solution. CD-2 is equivalent to 2% aqueous stabilized chlorine dioxide when activated. Chlorine dioxide is used in water treatment as an oxidant, disinfectant and sanitizer. CD-2 is registered with EPA for use in food plant processing and cooling water, CIP systems, medical and animal rearing and confinement facilities.

Typical Physical Properties

Appearance	Clear, colorless liquid
Odor	Slight chlorine odor
Solubility in Water	Complete
Specific Gravity	1.0 at 25°C (77°F)
pH (as supplied)	9.3

Typical properties are listed for information only, and are not to be considered as specification requirements. These items are not analyzed on a routine basis.

Typical Application

Food processing plants, poultry, meat, fish, dairies and bottling plants, canneries breweries and restaurants.

- Hard surface sanitizer
- Terminal sanitizer for tanks, lines and other food processing equipment
- Disinfectant for walls, ceilings and floors
- Control of mold, mildew and slime on walls, floors and ceilings
- Control of odor and slime in food plant process water and equipment, flumes and lines
- Pretreatment of uncut, unpeeled fruits and vegetables with potable water rinse
- Control of slime in cooling and warming water such as canning retort and pasteurizers
- Inhibition of slime-forming bacteria in cooling water

Water treatment storage systems

- Disinfection
- Taste and odor control in potable water storage and well water
- Slime control

Laboratories, hospitals, morgues, and institutions

- Disinfectant; hard surfaces, equipment and instruments
- Control of odor and slime in equipment
- Deodorizer for equipment/ workrooms

Animal rearing and confinement facilities

- Disinfectant
- Control of odor and slime build-up in confinement areas
- Carpet deodorizer



Product Sheet

Chlorine dioxide is a superior antimicrobial agent and a strong oxidant. Since chlorine dioxide does not hydrolyze in water, its germicidal activity is relatively constant over a broad pH range. Chlorine dioxide is used in antimicrobial applications to control viruses, bacteria and fungi, including such microorganisms as, Giardia Lamblia, Cryptosporidium, E. coli, Staphylococcus aureus, Listeria and Salmonella. Chlorine dioxide does not react with organic materials to form trihalomethanes (THMs) nor does it react with ammonia to form chloramines.

Typical Feed Requirements

The active biocidal component of the CD-2 system is free chlorine dioxide. Unactivated chlorite in the neutral to mildly alkaline pH range is a bacteriostatic. For higher levels of microbial control, such as sanitation and disinfection, activation of CD-2 is required to generate free chlorine dioxide. The use of citric acid as an activator is specified on the CD-2 label.

For additional treatment information, including dosage specific to your application, please contact your Siemens representative or refer to the CD-2 label instruction booklet.

Storage and Handling

CD-2 is registered as a pesticide with the United States Environmental Protection Agency (No. 5382-46) and must be used and handled in accordance with the label instructions. See product label and label instruction booklet for additional information.

Do not store at temperatures above 100°C (212°F). Do not expose to direct sunlight or ultraviolet light. Always use care when opening containers and keep tightly closed when not in use.

Avoid contact with eyes, skin or clothing. Remove and wash contaminated clothing to avoid fire.

See product label and Material Safety Data Sheet for additional safety and handling information of CD-2.

Packaging

CD-2 is available in 55-gallon drums, totes, and in bulk quantities. For further information, please contact your Siemens representative.

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