

ALPHASAN®

FOOD-GRADE WATER DISINFECTANT



Water is one of the single biggest raw materials used in food and beverage processing, and its microbial quality is of the utmost importance to prevent contamination of food and beverages. Regardless of the source of your water biofilms and bacterial infection can build-up in water facilities and pipelines, leading to contaminated water and associated food hygiene problems which can cause foodborne diseases, resulting in rejects, product recalls and potentially devastating public health risks.

ALPHASAN is Chlorine Dioxide (ClO_2) gas in an aqueous solution. It is an exceptionally powerful yet selective oxidising agent and antimicrobial disinfectant which is universally recognised as one of the most effective, safest, and environmentally harmless microbiocides available. This solution is used for a wide range of applications where effective control of microbial activity is essential – perfect for multiple applications in the food and beverage industry.

- **WATER QUALITY CONTROL** – Enhance the microbial quality of your water supply, & ensure complete protection from microbial pathogens, toxins & other contaminants.
- **WATER FACILITIES HYGIENE MANAGEMENT** - Disinfect pipelines & entire water facilities, controlling biofilm & slime build-up, as well as optimising flow.

ALPHASAN® – The superior performance coupled with its unrivalled safety and environmental benefits makes it the ultimate solution for adding value and increasing consumer satisfaction by enhancing product quality, as well as ultimately ensuring food safety, protecting public health and company reputation.

WATER QUALITY = FOOD SAFETY

FEATURES & BENEFITS

ALPHASAN – A versatile broad-spectrum and high-level bactericide, sporicide, virucide, fungicide and algaecide that has several important advantages over traditional high-risk sanitisers such as chlorine, hydrogen peroxide and sodium hypochlorite. ALPHASAN is not what is termed as “Stabilised Chlorine Dioxide”. This term is misleading as there is little or no ClO₂ in these so-called products.

ALPHASAN is especially effective because it is impossible for bacteria and viruses to develop resistance to it. It has proven to be consistently reliable for the control of, but not limited to, the following pathogens:

Bacillus	Listeria
Campylobacter	Legionella
Clostridium	Mycobacterium
Cryptosporidium	Norovirus
Enterobacter	Pseudomonas Aeruginosa
E. coli	Salmonella
Flavobacterium	Staphylococcus
Giardia	Streptococcus

HIGH PERFORMANCE – Rapidly & consistently eliminates harmful pathogens & microorganisms, & has over 2.5 X the oxidising power of waterborne chlorine. Proven to be consistently reliable & effective against bacteria, bacteria spores, viruses, protozoa, fungi, mildew & algae at up to 99.9999% (6-log reduction).

SAFETY – Non-hazardous, non-toxic & non-flammable. Completely safe to use.

ECONOMICAL – Its efficacy at low concentrations & short contact times means it is very economical in use, with low capital & operating costs. As a ready-to-dilute single pack solution it is easy to implement & monitor. It costs about the same as other sanitizers but is more versatile & beneficial to the environment.

ECO-FRIENDLY – Harmless to the environment & breaks down to salt (NaCl). It does not chlorinate or form any dangerous disinfection by-products, THM's or AOX's.

WATER STABILITY - Has high water solubility & remains a dissolved gas which stays active in water, enabling it to retain its effectiveness & penetrate all points in a system & kill microorganisms within the water as well as on any surfaces below the water – a unique trait to ClO₂ among disinfecting agents. It is also effective over a wide pH spectrum (pH4 – pH10).

NON-TAINTING – Does not adversely affect taste, smell or colour of food. Once diluted it is virtually tasteless & does not have the strong odour issues associated with chlorine or peracetic acid. It is also non-corrosive.

APPROVALS:

FSANZ (Food Standards Australia & New Zealand)

MPI - C43, C61 & C102

DWSNZ (New Zealand Drinking-water Standards)

TYPICAL APPLICATIONS

ALPHASAN - Used wherever the highest standards of disinfection are required, and is widely used in the food and beverage processing industry for providing complete protection from harmful bacteria and preventing other microbial pathogens such as Listeria, E. coli and Salmonella from contaminating your produce. This versatile broad-spectrum microbiocide is completely safe and is exceptionally effective without tainting or forming harmful disinfection by-products.

The solution is easily implemented into new or existing hygiene arrangements and systems via automatic dosing. Treated water is used for spraying, fogging or soaking, and is safely applied to all surfaces, as well as directly onto food products.

POTABLE WATER TREATMENT

Chlorine Dioxide is used for a variety of antimicrobial uses, including the disinfection of drinking water. At concentration levels accepted as safe for potable water (0.8ppm) it is still a highly effective virucide and bactericide, rapidly enhancing and sustainably maintaining the microbial quality of water used for washing, processing, preserving and storing food.

- **POTABLE WATER DISINFECTION** – Sustainably improve the microbial quality of your water, ensuring complete protection from microbial pathogens, toxins and other contaminants. Provides residual disinfection.
- **TASTE & ODOUR CONTROL** – Improves the taste of water & removes foul odours. It is tasteless, unlike Chlorine, so enhances the water & does not taint.

WATER FACILITIES TREATMENT

Due to its gaseous nature this solution has unrivalled coverage and penetration with optimal effect, reaching spaces and surfaces that other solutions simply cannot. When the ClO₂ gas is released it fills the entire space, permeating into every crevice and corner, ensuring complete protection.

- **WATER SYSTEMS DISINFECTION** – Disinfect entire water systems to ensure complete protection from microbial pathogens & other contaminants.
- **BIOFILM CONTROL** – Highly effective for eliminating biofilms & moulds, preventing the formation of slime in water pipelines, icemakers, water cooling towers & food-lines, to optimise flow & prevent blockages.

ALPHASAN®

Our technological advances have made it possible for us to produce a consistent 1000ppm aqueous solution of ClO₂ which has a 6-month shelf-life and is sold in various container sizes. With our experienced Chemists we are ready to assist you in every aspect of the evaluation, design, implementation and long-term support of your Chlorine dioxide disinfection solutions. Don't settle for anything less than **ALPHASAN**.

Pack sizes: 1L Bottles, 10L Containers, 60L Drums, 200L Drums & 1000L IBCs

ALPHASAN is a registered disinfectant, manufactured in New Zealand by:

ALPHA ENVIRONMENTAL LTD

P.O. Box 3581

Richmond

Nelson, 7050

Tel: +64 (0)3-544 4365

Email: sales.alphaenviro@outlook.com

Web: www.alphaenvironmental.co.nz

As the actual conditions of use and storage are out of our control, no liability is accepted for any loss or damage caused directly or indirectly through the use of our products. Intending users should satisfy themselves as to the suitability of this product for any particular purpose, by carrying out appropriate tests.

USE DISINFECTANTS SAFELY. ALWAYS READ THE LABEL AND SDS BEFORE USE. ALPHASAN® IS A REGISTERED TRADEMARK. ALL RIGHTS RESERVED.