

# ALPHASAN®

## THE ULTIMATE FOOD-GRADE MICROBIOCIDES



Food and beverage processors have a constant battle with maintaining food safety, and germ-free environments are vital for successful operations. Harmful pathogens and biological contaminants can build up on surfaces and equipment, as well as in water facilities, leading to food hygiene issues which can cause foodborne diseases, potentially resulting in product rejects or recalls, and public health risks.

**ALPHASAN** is Chlorine Dioxide ( $\text{ClO}_2$ ) 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 biocides 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.

- **ANTIMICROBIAL DISINFECTANT** – A high-level broad-spectrum microbiocide that is used for final sterilisation of entire food processing equipment & facilities, to control microbial activity.
- **FOOD WASHING AGENT & PROCESSING AID** – Wash fresh produce, fish, meat & other foods to significantly extend shelf-life & preserve in pristine freshness by eliminating spoilage microorganisms.

**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.

## FOOD SAFETY = FOOD QUALITY

# 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 ClO<sub>2</sub> 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 & 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, making it the most eco-friendly biocide available.

**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 ClO<sub>2</sub> 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 or produce. 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 perfect for multiple applications in the food and beverage industry where effective control of microbial activity is essential. This solution is a versatile multi-purpose and high-level disinfecting agent, used for providing complete protection from harmful bacteria and other microorganisms, preventing pathogens from contaminating your produce, without tainting or forming harmful disinfection by-products.

**ALPHASAN®** has unrivalled coverage and penetration with maximum effect, as when the ClO<sub>2</sub> gas is released it fills the entire space and permeates into every crevice and corner, ensuring 100% coverage and reaching surfaces that other solutions cannot.

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.

### **ANTI-MICROBIAL DISINFECTANT**

**ALPHASAN®** - A consistently effective high-level disinfectant perfect for all food and beverage preparation surfaces and equipment, typically used for final disinfection to reduce microbial loads.

- **CLEAN-IN-PLACE DISINFECTANT** - Suitable for complete facility & equipment disinfection.
- **FOOD CONTAINER DISINFECTION** – Sanitise food & beverage packaging & prevent cross contamination in re-usable food-crates & containers.
- **ODOUR NEUTRALISER** – One of the most powerful odour removal solutions available. Eliminate foul odours by controlling odour-causing bacteria & mould.

### **FOOD WASHING AGENT & PROCESSING AID**

**ALPHASAN®** - The powerful broad-spectrum action means that low residuals of this solution are enough to effectively kill spoilage micro-organisms on fresh and processed fruit and vegetables, meat and poultry, as well as on fish and other foods. This preserves produce in pristine freshness, significantly extending the shelf-life.

- **FOOD WASHING AGENT** – Sustainably ensure food safety, enhance quality & extend shelf-life by preventing biological contamination.
- **FOOD PROCESSING AID** – Control microbial activity in food & beverages during processing, storage & transportation. Does not taint or leave any harmful residues.

# ALPHASAN®

Our technological advances have made it possible for us to produce a consistent 1000ppm aqueous solution of ClO<sub>2</sub> which has a minimum 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 requirements.

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

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

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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. For more information, usage instructions and health & safety directions please refer to our website.

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