

# ALPHASAN®

## FOOD-GRADE MICROBIOCIDES



Fruit and vegetable processors have a constant battle with maintaining food safety, and hygienic 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 safety issues which can cause foodborne diseases, potentially resulting in product rejects or recalls, and public health risks.

**ALPHASAN** = Chlorine Dioxide ( $\text{ClO}_2$ ) gas in an aqueous solution. This 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.

- **FOOD WASHING AGENT & PROCESSING AID** – Disinfect raw or processed fruit & vegetables to remove pathogens & ensure food safety, as well as preserving freshness & extending shelf-life by controlling spoilage organisms.
- **POTABLE WATER DISINFECTION** – Enhance & maintain the microbial quality of your water, controlling harmful pathogens & disinfecting water facilities.

**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 also easy to implement & monitor. It costs about the same as other disinfectants but is much 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.

**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 excellent 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, reaching areas and surfaces that other solutions cannot.

The solution is easily implemented into new or existing hygiene arrangements and systems via automatic dosing. Can also be applied by spraying, fumigating or soaking, and is safely applied to all surfaces, as well as directly onto food and produce.



## FOOD WASHING AGENT & PROCESSING AID

**ALPHASAN** – A food-grade microbicide for treating water used for washing fruit and vegetables, as well as other foodstuffs. Permitted as a processing aid for all foods and is effective in the presence of organic matter and will not leave any harmful residues.

- **FRUIT & VEGETABLES WASH** - Disinfect fruit and vegetables for food safety, as well as to increase shelf life and preserve pristine freshness by controlling spoilage organisms.
- **FOOD PROCESSING AID** – Control microbial activity in food & beverages during processing & storage. Does not taint or leave any residues.

## POTABLE WATER DISINFECTION

**ALPHASAN** - At concentration levels accepted as safe for potable water it is still a highly effective virucide and bactericide. The ideal solution for safely treating your water to eliminate harmful pathogens and biological contaminants.

- **WATER DISINFECTION** – Enhance the microbial quality of water used for washing & processing food & produce, to eliminate harmful pathogens.
- **WATER FACILITIES DISINFECTION** – Sustainably control microbial activity & prevent biological contaminants, as well as controlling taste and odour problems. Provides residual disinfection
- **BIOFILM CONTROL** – Effectively eradicates & prevents problematic biofilms in water pipelines, tanks, & in food & beverage lines

# 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 disinfection requirements.

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

**ALPHASAN** is 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.