

# ALPHASAN®

## POULTRY WATER QUALITY CONTROL



Drinking water quality is the most underestimated issue in poultry farming, and it is an essential nutritional aspect as chicks and hens consume water at twice the level of feed. Improvements in the microbial quality of your water can have a significant impact, and controlling bacterial contamination and biofilm formation in the drinking water system is key to reducing bird exposure to harmful organisms and minimizing the spread of disease.

**ALPHASAN** is Chlorine Dioxide ( $\text{ClO}_2$ ) gas in an aqueous solution that is an exceptionally powerful broad-spectrum bactericide, virucide, fungicide and algacide, universally recognised as one of the most effective, safest and environmentally harmless biocides available and is used for a wide range of applications where effective control of microbial activity is essential.

Chlorine Dioxide has gained popularity as a water treatment solution in the poultry farm sector around the globe due to a number of beneficial factors, and it is highly effective against numerous viruses and bacteria that are known to be highly transmissible and can result in bird infections and mortality.  $\text{ClO}_2$  is a proven high performance disinfectant for poultry drinking water systems to promote bird health, maintain welfare, optimise growth and performance, as well as making the flock less susceptible to disease and therefore the requirement for antibiotics is reduced or even completely eliminated.

**PROMOTE BIRD HEALTH & WELFARE  
OPTIMISE GROWTH & PERFORMANCE**

# ALPHASAN®

## FEATURES & BENEFITS

**ALPHASAN** - An exceptionally powerful broad-spectrum bactericide, virucide, sporicide, fungicide and algaecide that has multiple important advantages over standard sanitisers and traditional high-risk chemicals such as hydrogen peroxide, chlorine and sodium hypochlorite.

**ALPHASAN** has proven to be consistently reliable and is an especially effective disinfectant because it is impossible for bacteria, fungi and viruses to develop a resistance to it.

**HIGH PERFORMANCE** – Consistently and rapidly eliminates bacteria, spores, viruses, fungus, mould, mildew, algae, yeasts, protozoa at up to 99.9999% (6-log reduction), as well as problematic biofilms and other waterborne biological pollutants. ClO<sub>2</sub> has over 2.5 X the oxidising power of chlorine and has proven to be exceptionally effective and sustainable at low concentrations.

**DISINFECTION EFFICACY** - Chlorine Dioxide has been proven to be very reliable and effective against, but not limited to, the following pathogens: *Avian Influenza, Campylobacter, Cryptosporidium, E. coli, Enterobacter, Giardia Lamblia, Infectious Bursal Disease (IBDV), Legionella, Listeria, Newcastle Disease Virus, Pseudomonas Aeruginosa and Salmonella.*

**SAFE TO USE** – Non-toxic, non-carcinogenic, non-flammable and non-hazardous to handle or transport. A chlorine-free, ready-to-dilute single pack solution with no mixing of dangerous chemicals, ensuring staff safety.

**ECONOMICAL** - Its efficacy at low concentrations and short contact times makes it very economical in use, with low capital & operating costs. Being a ready-to-dilute single pack solution it is also easy to handle, monitor and test. It costs about the same as other sanitisers but is more versatile and beneficial to the environment.

**ECO-FRIENDLY** - Biodegradable and breaks down to common salt (NaCl). Does not chlorinate or form any dangerous disinfection by-products (DBP's) such as AOX, HAA or THM's. It also breaks down quickly and will not leave any harmful residues or add toxic deposits to soil, making it the most environmentally harmless biocide available.

**NON-TAINTING** – ClO<sub>2</sub> is virtually tasteless and does not have the strong odour issues associated with chlorine. Does not adversely affect taste, smell or colour of water, but rather enhances it resulting in increased intake. It is also non-corrosive to equipment and pipework.

**APPROVALS:** FSANZ (Food Standards Australia & New Zealand) / MPI / DWSNZ (New Zealand Drinking-water Standards)

## TYPICAL APPLICATIONS

**ALPHASAN** is used wherever the highest standards of disinfection is required. It is a versatile broad-spectrum cleaner/disinfectant suitable for a wide range of airborne, waterborne and surface pathogens. The ultimate solution and preferred choice for multiple applications and disinfection challenges.

**ALPHASAN** is easily added into drinker lines using a precision dosing pump to inject the required volume into the head of the water supply. Most systems use a pulse drive from the water meter to activate the dosing pump. This ensures the consistency of the treatment, providing you with the most effective way to achieve water sanitation.

## WATER QUALITY CONTROL

Water is one of the single biggest raw materials used in poultry rearing, and its quality is of utmost importance to prevent contamination. Clean and bacteria-free water is vital for successful poultry rearing and healthy egg production and it is more important than ever to eliminate potential infectious pathogens at source – in the water supply.

**ALPHASAN** is used to improve the microbial quality of water, and to eliminate bacteria and prevent pathogens from infecting poultry stock. It also controls taste and odour problems, so encourages water intake. It is a proven fast and broad-spectrum disinfectant for process water supplies, whether it be from the mains or from storage tanks, aquifers, groundwater, dams or reservoirs, and at concentration levels accepted by WHO as safe for potable drinking water it is still a highly effective virucide and bactericide, providing long term residual protection against recontamination. ClO<sub>2</sub> provides high bactericidal and virucidal activity without resulting in any toxicity to birds.

## BIOFILM CONTROL

One of the major issues in almost every poultry facility is biofilms, which are usually pathogenic in nature and are the main source of flock infections. Regardless of the source of your water biofilms and bacterial infection can build up in water storage tanks and poultry drinker lines, leading to poor water quality and associated bird health problems. This is due to the unique situation with poultry water systems – slow moving water in small pipelines provides an ideal breeding ground for pathogen colonisation, creating an environment in which bacteria and other microorganisms can thrive. The slime can grow and block free water flow, and forms a contamination which undermines water quality and jeopardizes flock health.

**ALPHASAN** is a very powerful oxidising agent that is one of the most effective solutions for controlling biofilms and preventing further formation. It provides long-term disinfectant residual to control microbial pathogens, optimise water flow and ensure complete biosecurity.

Traditionally chemicals such as hydrogen peroxide and chlorine have been used in this sector, however they can create harmful disinfection by-products and are hazardous to store and handle. Biofilms are not broken down or removed by chemicals such as chlorine.

# 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.

**ALPHASAN®** is a registered disinfectant, manufactured and marketed in NZ 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.