



Wine and Beverage Industries

Products Included:

- Cleanskin 24
- Cellarguard Micro Safe
- Cellarguard Mould Clean
- Cellarguard Plus

Fact Sheet No.1

What is Cellarguard Plus?

Cellargroup Limited is a licensed distributor of Zoono Products in New Zealand and has created its own range of products under the brand Cellarguard Plus.

Cellarguard Plus and its companion product CleanSkin24 are patented antimicrobial products derived from technology developed for the US Military. The products were produced to control the spread of microbial infections within the confines of nuclear submarines. Until the 1990's, this cutting edge technology was literally a Military secret.

Cellarguard Plus can be applied as a mist, as a spray, even brushed or used as a dip. It does not require mixing and is safe to handle/ safe to store.

When the Cellarguard Plus application dries, the micro thin coating forms a very strong bond with the treated surface. It can be likened to having millions of sword shaped "road spikes" on the surface – each of which will attract, pierce and kill the membrane of the pathogen.

The same Cellarguard Plus molecule is capable of rupturing new bacteria cells again and again – with only a single application. Because it does not kill the pathogen by poisoning with toxic chemicals, they cannot adapt to it so there is no possibility of immunity developing (i.e. no possibility of superbugs).

Cellarguard Plus is colourless, odourless, non-leaching, environmentally safe, non corrosive and whilst completely safe for humans and animals, is deadly for a wide range of micro organisms including bacteria, mould, fungi and viruses. The list of pathogens killed or inactivated by Zoono overextended periods of time includes;

- Staphylococcus aureus
- Pseudomonas aeruginosa
- Escherichiacoli (E Coli)
- Proteus vulgaris
- Methycillan Resistant Staphylococcus Aureas (MRSA)
- Vancomycin Resistant Enterococcus (VRE)
- Legionella pneumonia
- Salmonella cholera suis
- Cryptosporidium parvum (oocysts)
- Citrobacter Freudii MS2
- Listeria monocytogenes ACM98
- Pseudomonas aeruginosa NCTC 6749

Zoono has been tested by organisations including Dow Corning USA> Arizona State University and the US Environmental Protection Agency. It has been proven to have a long lasting antimicrobial effect whilst having a similar LD50 toxicity level as Vitamin C.

Cellarguard Plus is made from the most basic of raw organic compounds. Today, it has been re-engineered into a water based solution which provides the antibacterial, antiviral, anti fungal and anti algal protection of a broad spectrum antimicrobial sanitiser that continuously kills for up to one month or more from each application whilst being totally non-toxic for humans and animals alike.

Cellargroup Ltd has been formed to focus upon the Wine and Beverage Industries. Zono/Cellargroup Ltd has application in almost every lifestyle environment:

- Child care, schools, aged care facilities.
- Hospitals, Doctor Surgeries, Dentists, Vet Clinics etc
- Hospitality – Restaurants, Bars and Cafes
- Sports Facilities
- Entertainment and Leisure
- Shopping Malls
- Transportation
- Marine
- Food preparation
- Workplace environments
- Households

The companion product Cleanskin 24 is a hand sanitiser that also uses this cutting edge technology to provide germ free protection for 24 hours from just one spray application. Tests have proven CS24's effectiveness against bacteria and fungi including the two main super bugs – MRSA (Golden staph) and VRE – and for extended periods. There is no other hand sanitiser on the market that can make this claim.

Manufacturing:

All Zono/Cellarguard Plus products are manufactured to exacting standards in an FDA approved facility in Riverside, California. Zono, and Cellarguard, are today in the 9th generation of the original technology – the products are now water based with greatly improved efficacy and longevity plus a 3 year shelf life.

Testing and Approvals;

The approval process for Cellarguard PLUS / Cleanskin 24 has been rigorous and the list of approvals includes NZFSA (New Zealand), AQIS (Australia) and AsureQuality (NZ). Zono brands have been tested in accredited Laboratories around the globe, including the UK, Germany, NZ, Australia, Turkey, Japan, South Africa, India and the USA. All results are available on the Zono website.

Patents:

Zono/Cellarguard Plus technology is patented.

Cellargroup Ltd is exclusive license holder and applicator for this product in the Wine and beverage Industries in New Zealand.

Fact Sheet No.2

CELLARGUARD PLUS – TOP 10 KEY FACTS

Cellarguard Plus is a totally unique anti microbial product. It should not be compared to other antimicrobial products for 10 key reasons;

1. **Cellarguard Plus does not kill bacteria by poisoning.**

This means that there is no possibility of bacteria building up any immunity (no super-bugs)

2. **Cellarguard Plus is colourless and odourless.**

This means that there are no unpleasant odours/no stains.

3. **Cellarguard Plus kills mechanically:**

This means that when Zoono is applied (and allowed to dry) it leaves a thin bonded film that resembles millions of sword shaped road spikes – spikes that attract and kill bacteria. One single application can last for a month or more (depending on the surface and the application).

4. **Cellarguard Plus lasts longer than chemical products:**

Chemicals are effective until such time that the surface is contaminated again. This can occur immediately – even something as innocent as a hand touching the surface can recontaminate the area with bacteria.

5. **Cellarguard Plus is safe to use;**

Cellarguard Plus has FDA recognition EPA, TGA and ERMA registrations plus NZFSA Approvals and as such is safe to humans and animals alike. It has a similar “toxicity” rating to Vitamin C.

6. **Cellarguard Plus is environmentally friendly;**

Cellarguard Plus is made from raw organic compounds. There is no harm to drains/waterways if Cellarguard Plus enters the system. In fact, Cellarguard Plus helps with the water treatment process.

7. **Cellarguard Plus does not leach.**

Because there is no leaching (once dried, there is no transfer from surface to surface), Cellarguard Plus is not only food safe but safe for use within the critical hygiene areas. In fact it is ideal to use on internal contact surfaces such as tanks, tankers, flexible hoses and pumps.

8. **Cellarguard Plus has been extensively tested:**

These tests have been conducted at several Universities and Laboratories within the USA, Australia and New Zealand. As such, all claims/test results are proven, verified and documented.

9. **Cellarguard Plus is ready to use.**

All products are ready for application and do not require mixing or diluting. For best results, apply either as a spray & wipe or via a fogging (misting) application. Depending on the amount applied, Zoono dries in a matter of minutes.

10. **Cellarguard Plus has a proven track record against bacteria, mould, fungi and viruses.** A complete list of tested products is available.

Fact Sheet No.3

10 THINGS TO KNOW ABOUT MOULD

In order to dispel some myths and confirm some Facts, here are 10 Things to know about Mould;

1. Mould is a form of Fungi that thrives in moist, humid areas and (unlike Plants) does not require sunlight to exist. Therefore, it can be present in dark attics, water closets, under the floors, behind the walls etc.
2. It is generally first noticed because of the presence of a musty, damp, “wet wool” type odour. It soon reaches a stage where it becomes visible to the naked eye – usually in the form of dark spots that are actually concentrations of mould colonies
3. Mould feeds by sending out fine “shoots” called hyphae that seek out moisture and nutrients. They can grow to over a metre in length and can even penetrate some soft woods, wallpaper and wall linings.
4. Unwanted feed material is filtered out & expunged by the mould in the form of aerosolised mist. This requires specialist equipment to detect and identify.
5. Some mould is actually beneficial – for example, the antibiotic penicillin is derived from a specific type of mould.
6. But in general terms, mould should be deemed detrimental to health as many produce mycotoxins. Indeed, the well-known “Black Mould” (Stachybotrys) is potentially fatal and has been colloquially called “the new asbestos”. If spores enter the airways, they settle in the lungs and cause pulmonary illnesses (especially lung bleeding) – often with fatal results.
7. Any person working in the area of mould treatment should be aware of the fact that mould is dangerous. As such, high level (P2/P3) respirators are required by all treating personnel, in order to conform to OS&H regulations.
8. Mould spores are in the air around us and travel from area to area via normal air movement or even by attaching themselves to a person’s clothing/to pet fur etc. Once they land on a moist area, they will settle and start to germinate.
9. Bleach is NOT an effective treatment against mould – all it does is strip the colour from the mould to make it “disappear”. The correct products to use are either a 70% alcohol solution – (in NZ this means using clear (surgical) methylated spirits) or if an alcohol mix is not readily available, use a 70% white vinegar solution mix (available from most supermarkets). Note: Mix percentages are critical.
10. Mildew is also a type of mould. Horticulturalists often use the term ‘mildew’ to refer to growth on (mainly) roses – this is actually “Powdery Mildew” and looks like white blotches on the leaves.

Fact Sheet No.4

FOOD SAFETY (NZFSA) APPROVALS

Zoonocide Z71 (Zoono) or Cellarguard Plus received C22 Approval from the New Zealand Food Safety Authority (NZFSA) on 13th August 2008

C22;

1. This may be used in edible areas.
2. Before use, all edible product must be removed from the room
3. No edible product is permitted in the room while odours remain.
4. Where incidental contact with the food surface occurs, the surface must be thoroughly cleaned and washed to ensure that no residue remains

Cleanskin24 received C54 Approval from the New Zealand Food Safety Authority (NZFSA) on 13th August 2008

C54;

1. This may be used as a hand sanitising compound in all areas.
2. The compound must be supplied from a fixed metered dispenser located a sufficient distance from the processing line to prevent product contamination.
3. Before the sanitiser is applied, hands must be clean. This includes washing the hands where necessary.
4. After use, the hands need not be rinsed but must be dry before the operator returns to the processing line.

Note:

Some competitor products utilising quaternary technology have received an NZFSA C41 Approval. This C41 approval relates specifically for products that must be diluted prior to use – in other words, they are stabilised products that have a finite shelf life that starts counting down as soon as dilution has taken place. In addition these products cannot be used near (or on) food packaging material.

C41;

1. This may be used in all areas
2. Before use, all edible product and packaging material must be removed from the room or carefully protected.
3. After use, surfaces must be thoroughly rinsed with potable water before production starts.
4. This product must always be used at dilutions recommended by the manufacturer.

By comparison:

Zoono or Cellarguard Plus is stable / does not require mixing / ready to use / environmentally friendly / non-leaching and non-toxic.

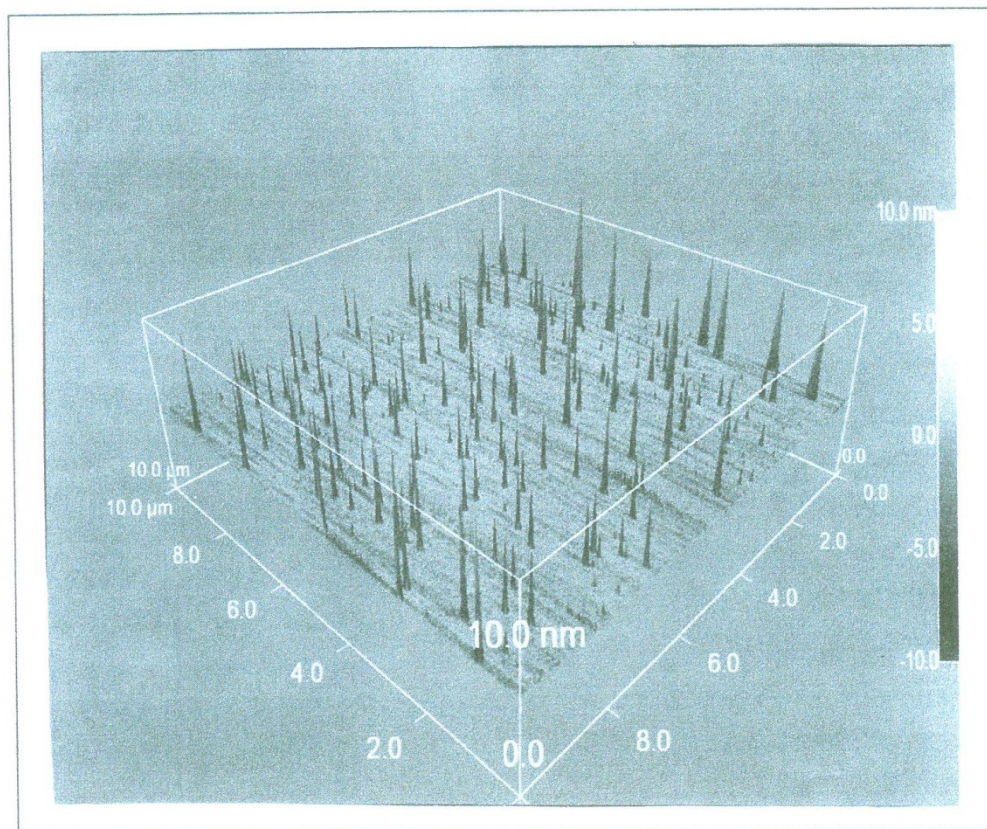
Fact Sheet No.5

CELLARGUARD PLUS IN ACTION

In order to better understand the principle of “How Cellarguard Plus Works” we have prepared the following actual photo taken via an electron microscope.

Cellarguard Plus dries to form a covalent bond with the surface leaving a series of microscopic “road spikes” that attract, pierce and destroy all bacteria and pathogens that comes in contact with the surface.

This picture was taken in a laboratory environment and shows Zoono in action. The scale represented on the side of the photo is measured in μm –this term is a ‘micrometre’ (often called a ‘micron’) and it is a one millionth of a metre or one thousandth of a millimetre. Put in perspective, a strand of human hair is approx. $100\mu\text{m}$ (or 100 microns) thick and this photo is only $10\mu\text{m}$ square.



Fact Sheet No.6

F D A & E P A INFORMATION

Zoonocide Z71 (Zoono) and GermFree24 are two products marketed throughout the World under various Registered Trade Marks and Registered Trade Names.

Both products (and their variants) are manufactured by Coating Systems Laboratories in Chandler, Arizona, United States of America.

∫ GermFree24 is listed with the FDA (Federal Drug Administration) under listing number 63377110.

∫ Coating Systems Laboratories' FDA establishment number is 300S368257

∫ Zoonocide Z71 (Zoono) is registered with the EPA (Environmental Protection Agency) under registration number 70087-1 and is an EPA registered site number 070087-AZ-001

∫ For all MSDS, Product and Patent Information, please visit www.cellargroup.co.nz or contact;

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