


FIRST
DEFENCEZOONO®

**OUR FIRST LINE OF DEFENCE
AGAINST THE INVISIBLE ENEMY**

ZOONO®

**A SOLUTION TO GET THE
WORLD BACK ON IT'S FEET**



1 = 30

**APPLICATION
OF ZOONO®**

**DAYS OF
PROTECTION**

THE NEW NORMAL?

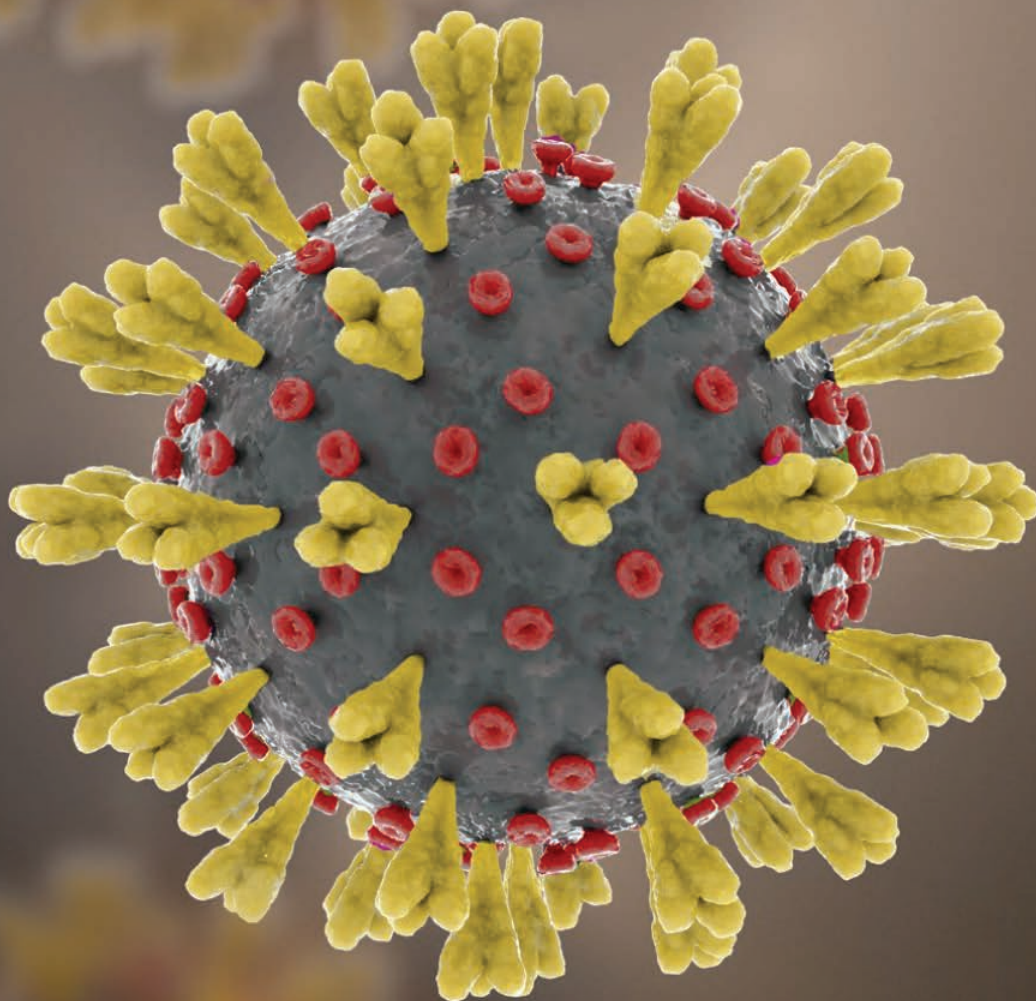
There will be a new normal in Australia, and it will be **BETTER** than before. An invisible enemy has attacked us all. We never give up. We win, we love, we innovate, we fight back.

There will be a new normal, but it will NOT be 1.5 metres apart. We take public transport, we will open businesses, schools, churches, daycares, theaters and restaurants.

We will play our sports. We will cheer for our athletes and heroes. We will travel by land, air and sea. We will not live in fear! We will greet our friends and loved ones with hugs and close business deals with handshakes.

FIRSTDEFENCEZOONO® sanitises and keeps killing for 30 days with a broad protective shield; providing a **SAFE** and **TRUSTED** hygienic environment.





TGA
APPROVED

SAFE & PROVEN TECHNOLOGY

Based on proven nanotechnology, **FIRSTDEFENCEZOONO®** kills 99.99% of a wide array of viruses (including Coronavirus), bacteria, and fungi.

Our non-toxic, environmentally safe defence layer kills then sanitises by providing 24-hour hand protection and 30-day surface protection, with only **ONE APPLICATION**.

FIRSTDEFENCEZOONO® products have TGA registered active ingredients and are TGA approved for use against Covid-19.

With **FIRSTDEFENCEZOONO®**, our trains, hospitals, schools, restaurants, airplanes, cruise ships, manufacturing plants, hotels, gyms and daycares will be safer than ever before for a sustained period of time.

FIRSTDEFENCEZOONO® has over 150 laboratory tests have successfully proven **ZOONO®**'s efficacy.

Scientific reports are available upon request.

FIRSTDEFENCEZOONO®

ZOONO[®]

PROTECTING THE WORLD
ONE APPLICATION AT A TIME





HOW MOST INFECTIOUS DISEASES ARE TRANSMITTED:

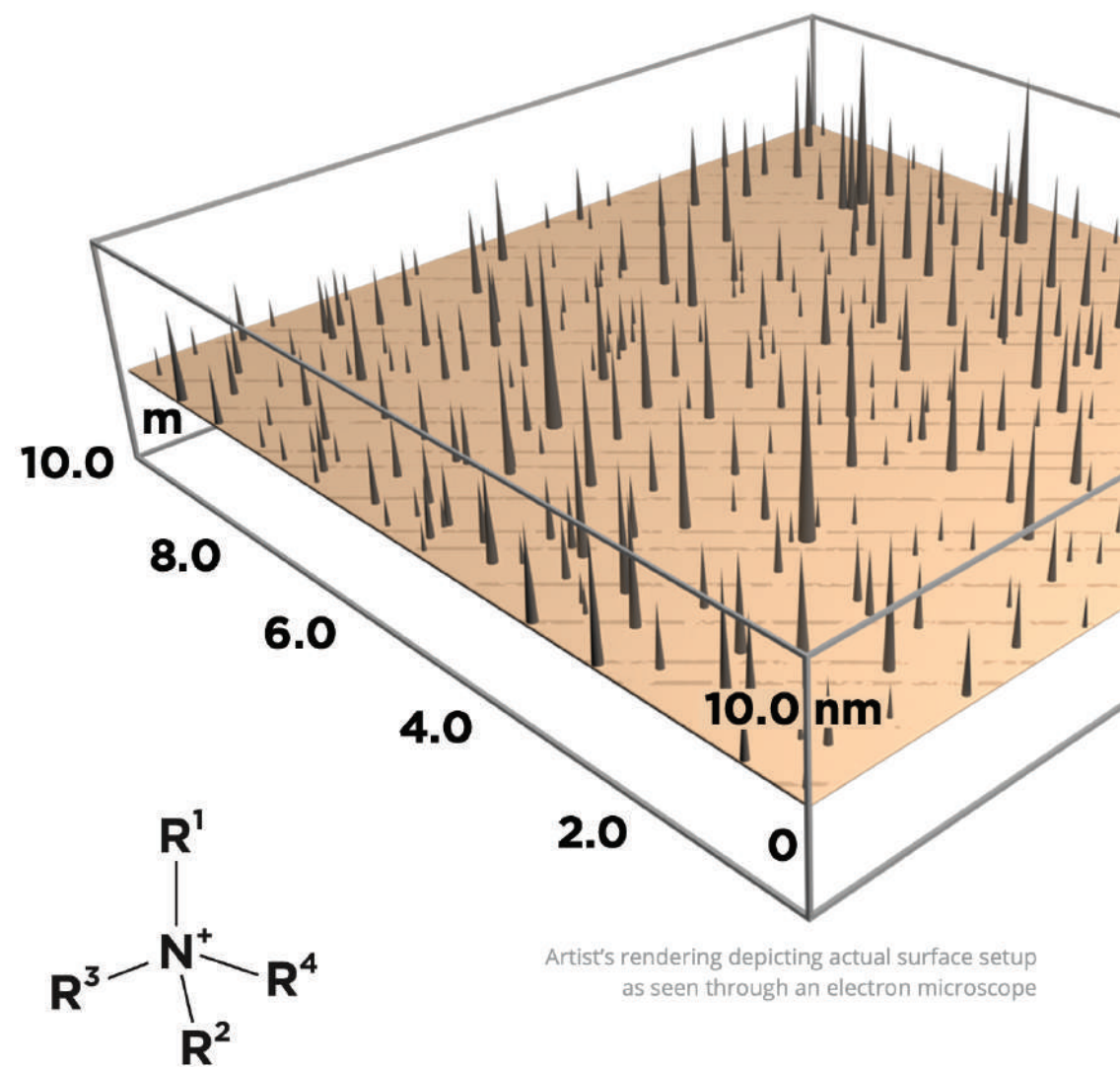
About 80% of infectious diseases are transmitted by unclean hands touching contaminated surfaces.

Some viruses (including coronavirus) and bacteria can live for hours and up to several days on tables, doorknobs, buttons, handles and many more places.

Germes are also transmitted to others by shaking hands or handling items that others then touch.

THE SCIENCE OF HOW IT WORKS

- Two active ingredients (Quats): Benzalkonium chloride and 3-Trimethoxysilyl propyldimethyl octadecylammonium chloride (3-Tri).
- The solution consists of 99% purified water with ~ 1% active ingredients. The proprietary blend is scientifically formulated such that the active “Quat” molecules are highly soluble and stable in water. This allows for a very long shelf-life without the need for on-site mixing. The benzalkonium chloride component provides the “instant kill” effect while in the wet state.
- The 3-Tri component of **FIRSTDEFENCEZOONO®** products, when applied to surfaces, transform from a water-soluble monomeric species to an insoluble, macromolecular antimicrobial film. This film is stable and durable.
- Disables pathogens via “lysis” – it mechanically disrupts the cell membrane (or viral envelope) – causing degradation and death. Two forces cause this interruption: a quaternized Nitrogen acts as an electrocuting charge and an 18 carbon length chain acts as a “sword” or puncturing agent.




PARTIAL LIST OF PATHOGENS KILLED

Partial List of pathogens killed or inactivated (99.99% or 10,000x reduction)

- **Coronavirus (COVID-19, SARS, MERS)**
- **H1N1 (Swine Flu)**
- **Norovirus (nursing home & cruise ship outbreaks)**
- **Influenza A & B (seasonal flu)**
- **Staphylococcus aureus (Staph infection & food poisoning)**
- Pseudomonas aeruginosa (community & hospital-acquired pneumonia)
- **Escherichia coli (E. coli food outbreaks)**
- Proteus vulgaris (wound and urinary tract infections)
- Methicillin Resistant Staphylococcus Aureus (MRSA)
- Vancomycin Resistant Enterococcus (VRE)
- Mycobacteria (tuberculosis)
- Legionella pneumoniae (Legionnaires' Disease)
- Salmonella (food poisoning)
- Cryptosporidium parvum (acute watery diarrhea - global health)
- Citrobacter Freundii MS2 (respiratory and urinary tract infections)
- Listeria (dairy industry outbreaks)
- Candida, Aspergillus and multiple other fungi and molds



TECH COMPARISON	FIRSTDEFENCEZOONO® Z-71 PROTECTION	TRADITIONAL DISINFECTANTS	FIRSTDEFENCEZOONO®
METHOD OF ACTION	Physical; attracts, pierces and kills pathogens via lysis.	Chemical; infiltration with poisoning or dehydration	
DURABILITY ON HANDS (GERMFREE24)	Proven effective for up to 24 hours	Short term efficacy – protection lasts for minutes	
DURABILITY ON SURFACES (Z-71)	Proven effective for up to 30 days	Effective for up to 4 hours	
DURABILITY ON TEXTILES	Proven effective for up to 75 washes	Often washes straight out	
TOXICITY	LD50 (toxicity) comparable to Vitamin C or coffee	Usually highly toxic	
EASE OF HANDLING	Ready to use / Easy to use	Generally require mixing / most contain poisons	
ENVIRONMENT	Safe to use – poses no risk to environment	Generally environmentally hazardous	
TESTING / PROOF OF EFFICACY	Over 150 efficacy and longevity results from recognized labs	Usually not available / not published	



FIRSTDEFENCEZOONO®

Z-71 30 DAY SURFACE PROTECTION



FIRSTDEFENCEZOONO®

OUR 3 STEP APPROACH STARTS WITH YOU

1. PROTECT

After recording initial pathogen levels and surface preparations are complete, **ZOONO®** is applied using our fogging procedures.

2. MONITOR

After **ZOONO®** is applied, we swab-test your pathogen levels again with our ATP Pathogen Testing Devices, providing instant results.

3. REPORT

You receive an in-depth report after each **30-day protection** period. Our goal is to deliver you a safe environment that operates continually within the <100 Safe Zone...



FIRSTDEFENCEZOO® Z-71

PROTECTION “MONTH AT A GLANCE”

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	1	2	3	4	5	6
	ZOO® PROTECTED					
7	8	9	10	11	12	13
ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED
14	15	16	17	18	19	20
ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED
21	22	23	24	25	26	27
ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED
28	29	30	1	2	3	4
ZOO® PROTECTED	ZOO® PROTECTED	ZOO® PROTECTED	ZOO® APPLICATION REAPPLIED			



FIRSTDEFENCEZOONO® Z-71 30 DAY PROTECTION

When **FIRSTDEFENCEZOONO®** Z-71 is applied as a mist, the micro thin coating forms a very strong bond with the treated surface after drying. 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.

FIRSTDEFENCEZOONO® Z-71 kills and keeps protecting for 30 days. **FIRSTDEFENCEZOONO®** Z-71 attacks new pathogens again and again – with only a single application. Because the pathogen is not killed by poisoning with toxic chemicals, they cannot adapt to it so there is no possibility of immunity developing (i.e. no possibility of superbugs).

FIRSTDEFENCEZOONO® Z-71 is a stable, water soluble, aqueous solution comprised of 99% highly purified water with approximately 1% active quats. In addition to being sprayed, **FIRSTDEFENCEZOONO®** Z-71 can be applied with a cloth to high touch point areas.

Without the need for added stabilizers or the requirement of on site mixing (in methanol or other toxic chemicals), **FIRSTDEFENCEZOONO®** Z-71 is safe to handle, easy to store and has been proven to be highly effective in a wide variety of applications.

HOW TO APPLY?

ULV COLD FOGGER

ULV cold foggers are cost effective and efficient ways to sanitise large spaces, such as offices, transportation, gyms, cafes & restaurants and general spaces. **FIRSTDEFENCEZOONO® Z-71** can be applied using a ULV cold fogger in 25-30 microns reaching all areas in the area where applied, drying within 15-30 minutes leaving a microscopic film for long lasting protection.

ELECTROSTATIC SPRAYER

Electrostatic sprayers are used to cover large areas of service quickly, effectively & efficiently. Due to the efficacy of the sprayers, less solution is used. Electrostatic sprayers use 70 percent less solution than a traditional trigger sprayer. With less solution used and no pooling or puddling, surfaces dry 60 percent faster. As the **FIRSTDEFENCEZOONO®** solution leaves the sprayer, it wraps itself around a surface, covering all areas, including the backsides and undersides of objects.

TRIGGER SPRAY BOTTLE & WIPE

Used to touch up high touch-point areas like doorknobs, faucets, elevator buttons, grocery carts, car/bus/train interiors, etc.



USE ON HEAVY CONTACT AREAS

When applied to a surface by spraying or wiping; **FIRSTDEFENCEZOONO®** Z-71 leaves behind a mono-molecular layer that permanently bonds to the surface.

These molecules are antimicrobial, silane-based polymers that covalently bond to the surface forming a barrier of positively charged microscopic pins.

The positively charged microscopic pins attract and pierce negatively charged pathogens. The pins rupture viral particles and bacteria causing the pathogen to break up with lethal effect. The layer of molecular antimicrobial pins continues working for up to 30 days on surfaces.

Routine cleaning can continue and does not disrupt **FIRSTDEFENCEZOONO®** Z-71 molecule or its antimicrobial activity.



FIRSTDEFENCEZOONO®



FIRSTDEFENCEZOOONO®

SAFE TRANSPORT SYSTEM OF CLEANING PROTOCOL

SAFE TRANSPORT SYSTEM OF CLEANING PROTOCOL

PROVEN PROTECTION: Creating a better solution together...

This 'system of cleaning' was designed when **ZOONO®** conducted 'live' testing between 2015 & 2017 with London Underground in the anticipation of a pandemic. **FIRSTDEFENCEZOONO®** have access to all data and reporting from the London Underground trial. We have the resource and protocols to provide maximum risk mitigation for patrons to safely enjoy public transport as they once did.

FIRSTDEFENCEZOONO® are confident that by taking these protocol steps, while utilizing the **FIRSTDEFENCEZOONO®** products, patrons can return to trains and buses with confidence in their operators.

FIRSTDEFENCEZOONO® offer the 'confidence strategy' you require as we lead the 'new normal' everyday life.

1 APPLICATION

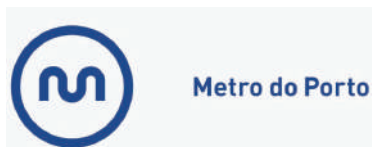
- Treat every public element of the rolling stock carriage and drivers cab with **FIRSTDEFENCE ZOONO® Z-71** once every 21-25 days fogging of entire carriage at 25-30 microns
- Application of **FIRSTDEFENCE ZOONO®** to commonly touched points at stations and on platforms
- Re-application on certain touch-points every 7 days

2 MONITORING

- Random ATP monitoring of surfaces to ensure **FIRSTDEFENCEZOONO®** is working effectively
- Report to operators monthly with assistance in improving their cleaning capabilities and efficiency



WHY ZOOONO® & PUBLIC TRANSPORT? THE EFFICACY IS IN WHO USES FIRSTDEFENCEZOOONO® PRODUCTS



CONTINUED... THE EFFICACY IS IN WHO USES FIRSTDEFENCEZOOONO® PRODUCTS AROUND THE WORLD

1 FITNESS INDUSTRY

- GYMS
- STUDIOS
- FITNESS CENTRES
- SPORTING CLUBS
- STADIUMS

2 HOSPITALITY

- CAFES
- RESTAURANTS
- PUBS
- CLUBS
- BARS
- COMMERCIAL KITCHENS
- EVENT SPACES

3 AUTOMOTIVE & MARINE

- CAR INTERIORS & EXTERIORS
- CAR DEALERSHIPS
- BOATS
- FERRIES
- CRUISE SHIPS

4 COMMERCIAL & RESIDENTIAL

- STRATA
- OFFICES
- SHOPPING CENTRES
- RETAIL SPACES
- LIFTS
- BANKS & ATMS
- CASINOS
- AIRPORTS
- HOMES

5 ORGANISATIONS RELYING ON ZOOONO® AROUND THE WORLD



A close-up photograph of two hands being washed with white soap foam. The hands are positioned over a white pump dispenser. The background is a soft, out-of-focus grey. Two horizontal blue lines frame the top text.

FIRSTDEFENCEZOONO®

ZOONO®
AUTHORISED AGENT

**SMALL GOODS RANGE
PROTECTING FAMILIES AROUND THE GLOBE**

FIRSTDEFENCEZONO®

SMALL GOODS RANGE

GERMFREE24 HAND SANITISER:

50ml | 150ml | 500ml | 5L



Z-71 MICROBE SHIELD:

150ml | 250ml | 500ml | 5L | 20L



- CUSTOMISED BRANDING
- PREMIUM EASY TO USE PACKAGING
- OVER 150 LAB TESTS
- SAFE FOR CHILDREN
- GENTLE ON SKIN
- NON-TOXIC & ZERO ALOCHOL
- 24 HOUR PROTECTION ON SKIN
- 30 DAY PROTECTION ON SURFACES

CONTACT US TODAY

E: info@firstdefence.me | W: www.firstdefence.me

FIRSTDEFENCEZOOONO®

**A PROUDLY AUSTRALIAN COMPANY
PROTECTING AUSTRALIANS**

ZOOONO®
AUTHORISED AGENT