

# ARGESIL



**Can we all agree, we won't be  
munching on microprocessor  
chips in the future?**





## **What use is our advancement if the quality of our food-products is going downhill?**

Our hypermarkets are swanky. On a whim, we can order stuff on our mobile phones too! But what stuff? Fruits, vegetables, and grain that are grown out of hybrid seeds, with the aid of chemical fertilizers, and ensured by snarling pesticides? Or processed foods and merchandise that aren't worth the attractive packaging they arrive inside? One mustn't have to ask! Our food products just have to be beyond reproach. They must taste nice and be 'predictably' wholesome.



# By 2050, antimicrobial resistant infections may become the leading cause of illness.

We are entering a post-antibiotic era where simple and previously treatable bacterial infections can become fatal. Our lifestyles are hastening the onset of that too -- especially, our food products and eating habits.

Our seed washing treatments render the resultant agricultural produce potentially harmful. The infusion of chemical fertilizers and pesticides on our crops, vegetables, and fruits imparts higher-than-normal levels of toxic heavy metals into them. Then there is the whole chemical preservative-driven food processing industry! There's less of anything natural in the merchandise than what has been put in from the outside -- with abject disregard for human health.

Our bodies haven't bargained for this onslaught. With the diminishing impact of antibiotics on our systems, our challenges are going to get stiffer.

**A crisis of health is imminent in the foreseeable future. And while the cures re-invent themselves, we must right a few wrongs. To start with, we must produce and eat better food and live healthier lifestyles.**

# Technical Datasheet

Argesil is a highly recommended disinfectant for use in Agriculture, Horticulture, Seed Disinfection, Soil Sterilisation, and Spraying. It gives that extra oxygen to plant as a nutrient. It protects the plants & produce from severe infection due to bacteria, fungi, viruses, and various other types of harmful insects. Daily use of Argesil in drip irrigation pipelines helps prevent biofilm formation.



## Composition:

**Hydrogen Peroxide 48% w/v**

**Silver Nano particles - 0.05% w/v,**

**D.M. Water q.s.**

- Efficacy Tested in NABL accredited lab

- Recommended by WHO, EPA, CDC & ICMR

- Manufactured in GMP certified facility

Highly recommended for the entire Watering System like Drip line Systems, Irrigation Systems, Spray Systems, Silos, Hydroculture, Gutters, etc.

**Direction for Use:** Dilute Argesil in Clean Water

Dilute 100ml in 10,000 Ltrs Water for Spraying and Watering

Dilute 1Lt in 200 Ltrs water for Seed disinfection & Soil Sterilisation

\*Contact us for high bio-load customised solution.



**Storage:** Store in cool and dark place

**Shelf Life:** 12 months from date of manufacturing



OXIDIZER



CORROSIVE



IRRITANT

**Health: Not for medicinal use.** Can cause eye damage in case of direct contact. May cause mild skin irritation. May cause respiratory irritation. Harmful if swallowed. Keep away from children.

**Safety:** Wear Personal Protective gear like gloves. Nose mask & eye goggle while using the concentrated liquid.

**First Aid:** Wash the affected part with ample water or take medical assistance in case of severe injury/exposure.

## Efficacy

H2O2 Conc.	Duration	Killing*	Micro organisms
~ 0.5 %	20 mins	99.99%	E.coli, Staphylococcus Aureus, Pseudomonas Aeriginosa, Salmonella Typhi, Methicillin-Resistant Saphylococcus Aureus and C. albicans.
~ 1.5 %	10 mins	99.99%	
~ 2.5 %	10 mins	99.999%	
~ 5.0%	10 mins	99.999%	
~ 12.5%	5 mins	99.999%	

(\* ) Tested as per EN 1276 guidelines.

Presenting,

# ARGESIL

## Silver Nanotechnology

- Broad-Spectrum & kills up to 99.999% harmful Bacteria (as per EN 1276) Highly Effective on Viruses, Fungi, and Multiple Drug Resistant Bacteria & Spores
- Non-Toxic & without Chemical Residue
- Safe for Children, Infants, & the Elderly
- Pet/Farm Animal Friendly
- 100% Eco-Friendly
- 100 % Biodegradable -- it decomposes to Water and Oxygen post use
- Alcohol-Free
- Versatile in use – on surfaces, as a fumigant, and inside hard-to-reach spaces

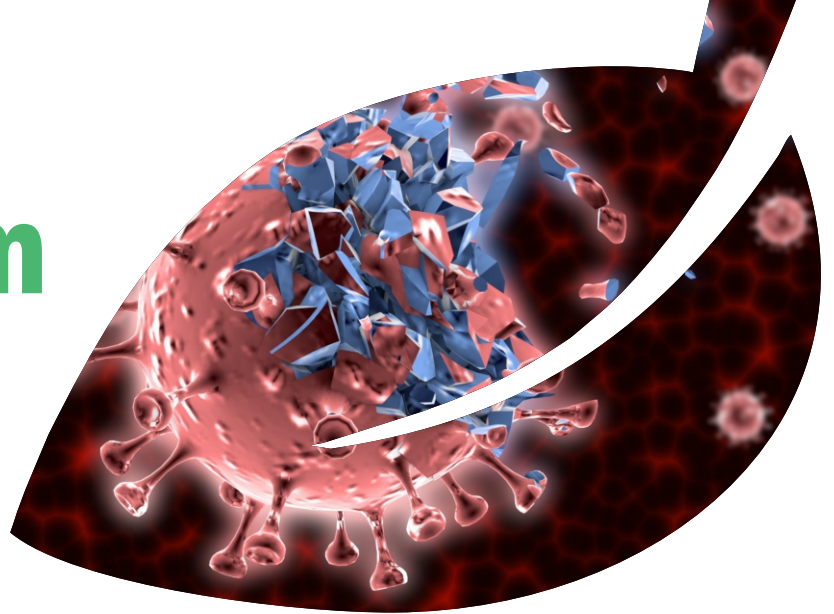
It delivers unfailingly,  
comprehensively,  
and consistently. It's...

*"Delightfully Predictable!"*





# 'Mechanism of killing' explained.



Hydrogen Peroxide produces destructive hydroxyl free radicals which attacks the membrane lipids, DNA, and essential cell components. Additionally, the Silver Nanoparticles anchor to the bacterial cell walls and penetrate them, causing structural damage to the cell membrane. Due to its permeability, it causes the death of the cell. The formation of free radicals due to positively charged ions from Silver Nanoparticles and modulation of microbial signal transduction also causes immediate extermination of the cell. Thus, using these two agents in combination, ARGESIL eradicates both Gram negative and Gram positive bacteria even at a relatively lower concentration and in a short treatment time.

**ARGESIL kills up to 99.999% harmful and infectious microbes in just one use, in mere 5 minutes.\***

\*Refer the Efficacy Study Report as per EN 1276 Guidelines.

**ARGESIL Sterilizes, Disinfects, Sanitizes, & Deodorizes.**



***"Delightfully Predictable!"***



# Removal of **Biofilm**

Biofilms are responsible for chronic illness and nosocomial infections, industrial pipe fouling, spoilage of foods, contamination of seafood and dairy products, as well as ship hull fouling. Some of the human diseases caused by bacterial biofilms-associated infections are wound infection, osteomyelitis, chronic sinusitis, central nervous system shunt infection, contact lens-associated keratitis, chronic otitis media, cochlear implant infection, burn-related infection, intravascular catheter infection.

**ARGESIL is extremely effective in the removal of Biofilm, in just one use.\***

\*Refer the Efficacy Study Report as per EN 1276 Guidelines.

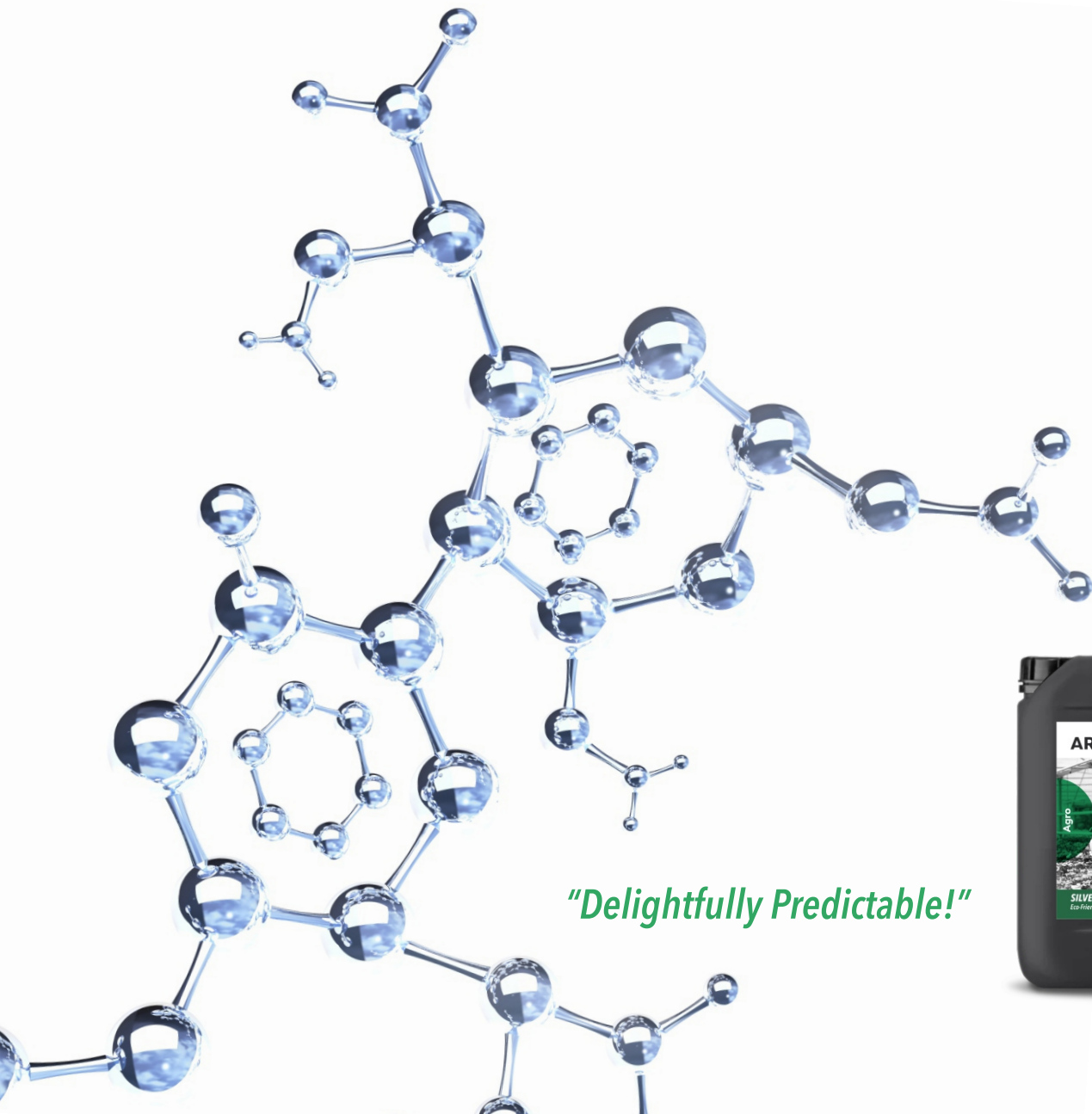
*"Delightfully Predictable!"*





# The power of Nanotechnology

ARGËSIL utilizes the attributes of Silver Nanoparticles. Its unprecedented antimicrobial efficacy, while at the same time functioning without chemical residue and with a minimal toll on the environment, is owed to the application of nanotechnology to a 'noble metal.'



*"Delightfully Predictable!"*



# Science & Sensibility



At **ARGENOBËL**, we believe that the best sciences are those that 'leave' without leaving behind the vestiges of their aftermath.

The choices that Nanotechnology allows us will do good to the planet – it may, one day, eliminate the plastic in a whale's belly. It will perhaps help us flight climate change. It will possibly make the engine-oil changes over the lifetime of your car, count to one! The ARGËSIL range of products have been created with the same aspiration.

*"Delightfully Predictable!"*





# The ARGESIL range



## Medical

For disinfection of Operation Theatres, Immerse Medical Devices, Surgical Devices, Laundry Bed & Pillow Linen, Pathological Consumables, Catheters, etc., Effective for Hospitals, Clinics, Nursing Homes, Pathology Labs, Imaging Centre, Blood Banks, Veterinary Hospitals, & Clinics.



## Pharma

Use for disinfecting, sterilizing and sanitizing Cleanrooms, Process Equipment, Water Storage Tanks, Air Handling Filters, Utilities, Purified Water systems, D M Water Resins, Biofilms in Pipes, Fittings, & Ducts, etc.



## Professional

ARGESIL is a highly recommended multipurpose disinfectant for use in areas with high footfall. It maintains the highest level of hygiene & safety standards while protecting from dangerous bacteria, viruses, fungi, and other serious illness causing microorganisms.



## Home

Highly recommended for spraying over Fruits, Vegetables, Meat, outer packs of Parcels, Kitchen, Washing Sink, Living Room, Carpets, Floors, Storage Room, Toilet-Washrooms, Water Storage Tank, Under-ground Water Storage Tank, Cupboards, Air Conditioner Filters, Aquaguard Tubes, etc.



# Our Manifesto

We walk with a science that has discovered its true purpose.

It solves a problem and, for once, desists from creating another.

A world better than we found, it brings forth - *now, and through us.*







Argenobel Nanoscience Pvt. Ltd.,  
502, Parmeshwari plaza, Mulund (W),  
Mumbai 400 080, Maharashtra, INDIA

+91 816 917 8767  
info@argenobel.com | www.argenobel.com



RECOMMENDED

