

A glass petri dish containing a yellow liquid, with a pipette dispensing a drop of the liquid into it. The background is a blurred green and blue, suggesting a laboratory or natural setting.

NATURAL DISINFECTION SOLUTIONS

BN-200

THE NATURAL WAY TO DISINFECT

HYPOCHLOROUS ACID

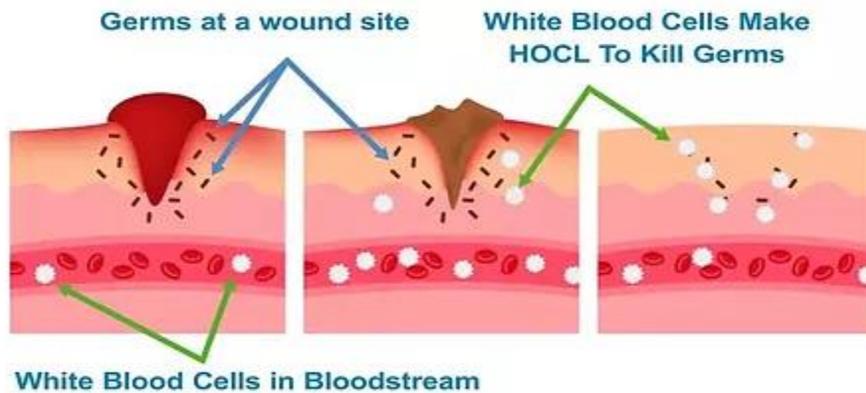
LIST "N" APPROVED

BN-200 EPA REG. NO. 91138-1-91715

Nature's Way to Keep Infection and Odor Away

HOCL

Is What Our White Blood Cells Use
To Kill Pathogens



Once BN-200 is mixed with water Hypochlorous Acid (HOCL) is created. Hypochlorous Acid is a disinfectant that is up to 300 times more effective than bleach, yet non toxic. Bacteria cannot develop resistance to it. Scientific testing has resulted in kills of every pathogen (virus, bacteria, fungus, mold, etc.) it has been tested against.

HYPOCHLOROUS ACID INFORMATION SHEET

BN-200

Hypochlorous Acid is a disinfectant that is up to 300 times more effective than bleach, yet non-toxic. Bacteria cannot develop resistance to it. Scientific testing has proved that it kills every pathogen (virus, bacteria, fungus, mold, etc.) that it has been tested against. Dwell time efficacy is a function of HOCL concentration. The minimum disinfection level is 500 PPM with an upper level of 2400 PPM. It is more effective than toxic "Quat" based disinfectants, and in most cases works faster and does not require to be cleaned off. Testing has shown that it effectively kills viruses on surfaces and in the air. Recent testing even displayed proven results for virus control in the air when dispensed through a cold-water humidifier in rooms.

It is called an acid, but it is not acidic because it is effective as a disinfectant with a neutral pH, like water. It is also produced in our bodies and used by our immune system to attack a virus in the process called phagocytosis.

Over the years Hypochlorous Acid has been found to be beneficial for many uses. During WWI it was used to treat wounds and has been recognized for its ability to help wounds heal painlessly while killing harmful bacteria. It continues to be used for a wide variety of health care treatments. It is frequently used in the food processing industry because of its amazing ability to disinfect equipment for meat, dairy, and produce products without introducing any hazardous chemicals into the food and is now finding universal acceptance as the safest and most powerful disinfectant available. More commonly, people have unknowingly experienced Hypochlorous Acid in "Salt-Water Pools". It is the leading technology for providing a safer, more effective solution than traditional Bleach based pools for people to swim in.

The EPA has recognized chlorine as the most widely used disinfectant due to its ability to destroy organisms by oxidizing cellular material. Hypochlorous Acid is on the U.S. Food and Drug Administration's list of Cleared Sterilant and High-Level Disinfectants with General claims, and the CDC states that the microbiocidal activity of chlorine is attributed largely to undissociated hypochlorous acid.

BN-200 is an EPA registered disinfectant. There is a QR code on each label that will allow immediate easy access with a smart phone to information pages including dilution recommendations, SDS, and secondary labels. The product dispenses perfectly through foggers, power misters, pump up sprayers, hand misters, and trigger spray quarts, and cold-water humidifiers.

PROTECT YOUR HEALTH AND CREATE A SAFER ENVIRONMENT

CONVERSION TABLE



Item Number	Description	Creates
BN-200	1 LB Tub	Sanitizer/Disinfectant
BN-200-10	100Z Tub	Sanitizer/Disinfectant

Amount	Produces	PPM	# of Scoops	Creates
1.5CC Scoop	324 Gallons RTU	200PPM	1 Scoop	Sanitizer/Food Safe
	324 Quarts RTU	800PPM	1 Scoop	Sanitizer/Disinfectant
8.5CC Scoop	66 Gallons RTU	600PPM	3 Scoop	Air Sanitizer/Humidifer
	54 Gallons RTU	1200PPM	1 Scoop	Disinfectant
	27 Gallons RTU	2400PPM	2 Scoop	Hospital Grade Disinfectant

EFFICACY CHART

ECA USED AN EPA RECOGNIZED THIRD PARTY LABORATORY, BIOSCIENCE, AND BASED ON EPA APPROVED PROCEDURE, THEY HAVE REPORTED THAT OUR PRODUCT PASSED THE REQUIREMENT TO KILL THE FOLLOWING VIRUS:

EPA TESTING

Completed Test Pathogen	PPM of Test	Kill Time (secs)
Corona Virus 229E	1200	240
Norovirus (VR-782)	2400	240
Respiratory Syncytial Viruses (VR-26)	1200	240
Measles (VR-24)	1200	240

ADDITIONAL 3RD PARTY TESTING

ENVELOPED VIRUSES

Completed Test Pathogen	PPM of Test	Kill Time (secs)
Canine Parvovirus	950-1100	60
Enterovirus Type 69	530	180
Feline Calicivirus	950-1100	60
Hepatitis B	1100-1200	60
Hepatitis C	1264	30
HIV	1268	30
Human Herpesvirus 1 (HSV)	1268	30
Influenza A (H1N1)	950-1100	60
Murine Norovirus (MNV-1)	1100-1200	30
Poliovirus	1268	30

ADDITIONAL PATHOGENS

Completed Test Pathogen	PPM of Test	Kill Time (secs)
C. Diff	2904	60
Duck Hepatitis B	591	30
E. coli 0157:H7	199	30
Legionella	600	30
Listeria Monocytogenes	199	30
Mycobacterium Terrea	412	30
Pseudomonas Aeruginosa	350	30
Salmonella Enterica	99	30
Staphylococcus Aureus (MRSA)	897	30
T. Interdigital (Athlete's Foot)	950-1100	60

LARGE AREA DISINFECTION

- BN-200 allows you to customize your concentration of HOCL – perfect for foggers to cover large area quickly.



GRANULAR VS LIQUID

- Cost per use is significantly cheaper
- Shelf life – most liquids are ready to use and have a shelf life of 30 days to 120 days. Granular is good for 3 years!
- Customizable – Granular allows the user to make a food safe sanitizer to a disinfectant that has a 60 sec kill claim.



HUMIDIFIER – AIR SANITATION

- BN-200 through a humidifier kills pathogens that are airborne.

