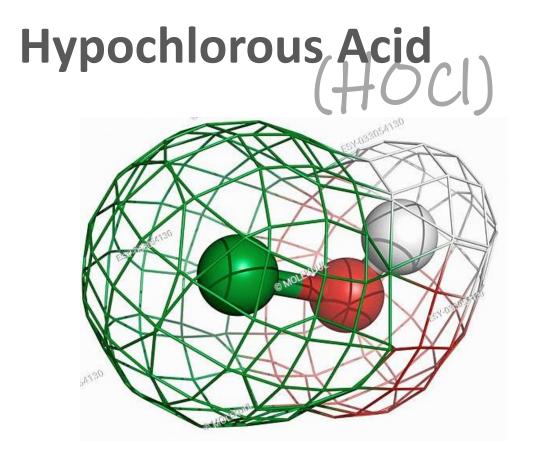
MEAT PROCESSING

atm plus





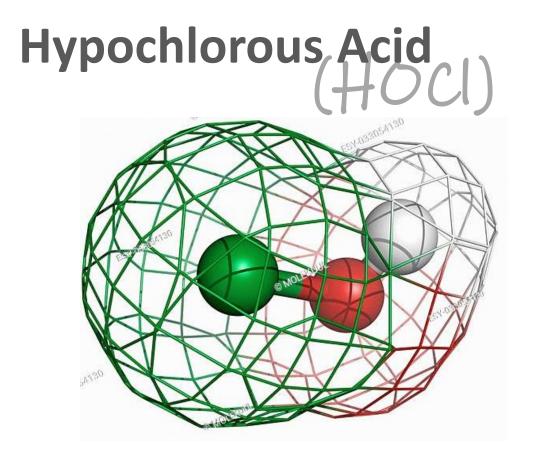
also known as

- electrolyzed water / electrolyzed reduced water (ERW, EW)
- electrochemically activated water (ECA)
 - anolyte (AEW, NEW, SAEW)

•

atm plus has a broad spectrum anti-microbial use





- No polar charge
- Low molecular weight

PERFECT structure to penetrate CELL WALLS

- HOCI is a WEAK ACID
- At a pH of 4 8.5 most available Chlorine is HOCl

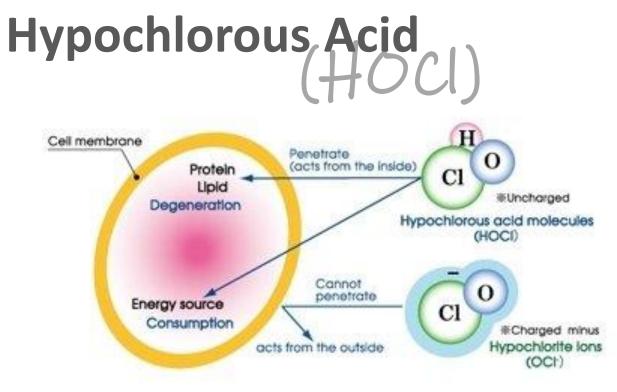
NO RESIDUE after dissolving in water

 Solution stays active for 7 – 10 DAYS

H – O – Cl :



atm plus most effective disinfectant in the chlorine family



hypochlorousacid.com/about

- HOCI diffuse through cell membrane
- Without a polar charge it is not repelled
- OCI- (BLEACH) is unable to penetrate cell membrane due to negative charge
- Bleach can only clean on the EXTERIOR
- HOCI acts from INSIDE

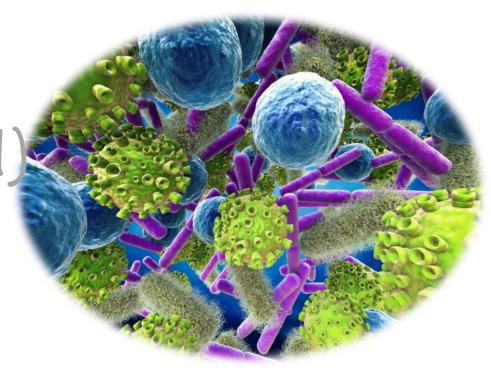
atm plus most effective disinfectant in the chlorine family



NATURE of Hypochlorous Acid

- Natural component of our own immune systems
- Fights against infection
- Reduces inflammation
- Bio-degradable in the environment

atm plus organic, lethal, cost effective



"Hypochlorous acid is LETHAL to every pathogen it has been tested against but completely HARMLESS to humans and other mammals."

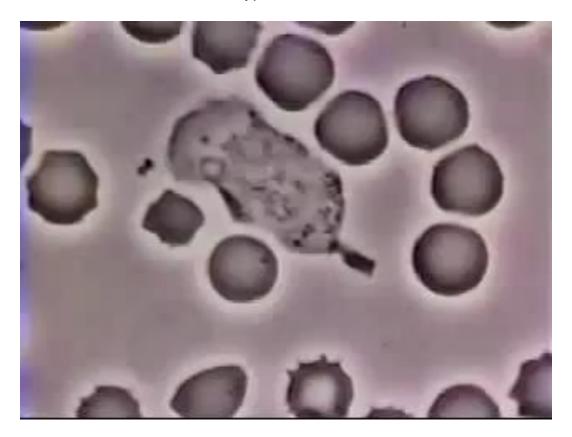


phagocytosis

[fag-uh-sahy-toh-sis]

noun

Physiology. the ingestion of a smaller cell or cell fragment, a microorganism, or foreign particles by means of the local infolding of a cell's membrane and the protrusion of its cytoplasm around the fold until the material has been surrounded and engulfed by closure of the membrane and formation of a vacuole: characteristic of amoebas and some types of white blood cells.



- Neutrophils (WHITE BLOOD CELLS) seek out pathogens (VIRUSES AND BACTERIA) and destroy them using HOCI
- HOCI causes necrosis (RUPTURING OF THE CELL) and destroys the cell contents
- While disinfecting, HOCl is {OXIDISED} and consumed
- The only by-product is slightly salty water



EFFECTIVENESS OF HOCI

atm plus disinfects and destroys:

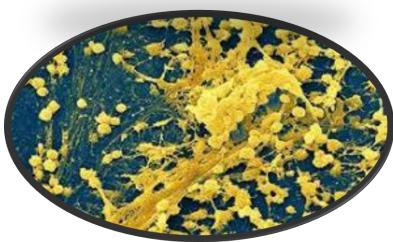
✓ VIRUSES✓ BACTERIA

- BACIERIA
- ✓ MOULDS
- ✓ FUNGI
- ✓ SPORES
- ✓ BIOFILMS

defends against:

- ✓ INFECTION
- ✓ RESISTANCE/TOLERANCE
- ✓ PATHOGENS BENEATH BIOFILMS
- ✓ FERMENTATION IN STORAGE







atm plus 80 – 100 times more effective than bleach

PROVEN EFFECTIVE AGAINST SARS-CoV-2

Chan K-H, Sridhar S, Zhang RR, Chu H, Fung AY-F, Chan G, Chan JF-W, To KK-W, Hung IF-N, Cheng VC-C, Yuen K-Y, Factors affecting stability and infectivity of SARS-CoV-2, *Journal of Hospital Infection*, https://doi.org/10.1016/j.jhin.2020.07.009.

The latest peer approved scientific papers conclusively show that HOCL effectively kills the SARS-Covid 2 virus. The papers also compare HOCL to other disinfectants showing its comparative performance with other disinfectants such as bleach.

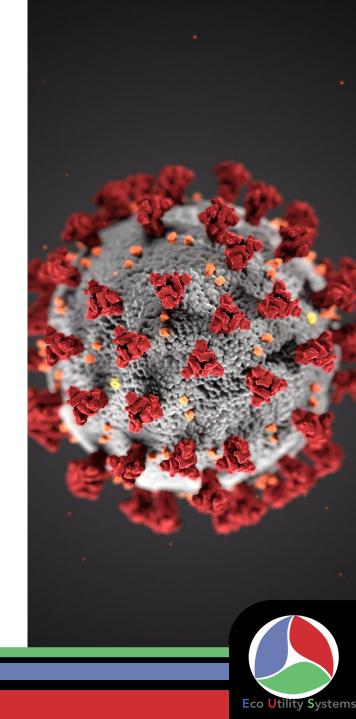
'The surgeon needs to have an inexpensive, available, nontoxic, and practical disinfectant that is effective in sanitizing against the COVID-19 (Coronavirus Disease 2019) virus.'

'The results indicate that this material can be used with a high predictability for disinfecting against the COVID-19 (Coronavirus Disease 2019) virus.'

atm plus

Michael S. Block, Brian G. Rowan, Hypochlorous Acid: A Review, J Oral Maxillofac Surg, 10.1016/j.joms.2020.06.029

80 – 100 times more effective than bleach



atm plus the effervescent tablet



1 tablet = 12.5 of disinfectant

consistent solution at 100PPM every time

active for 7 - 10 DAYS after dissolving then returns to pure water

easy STORAGE **IOW TRANSPORT COSTS** 1 year SHELF LIFE in tablet form

atm plus

effective at 25PPM to 200PPM depending on use





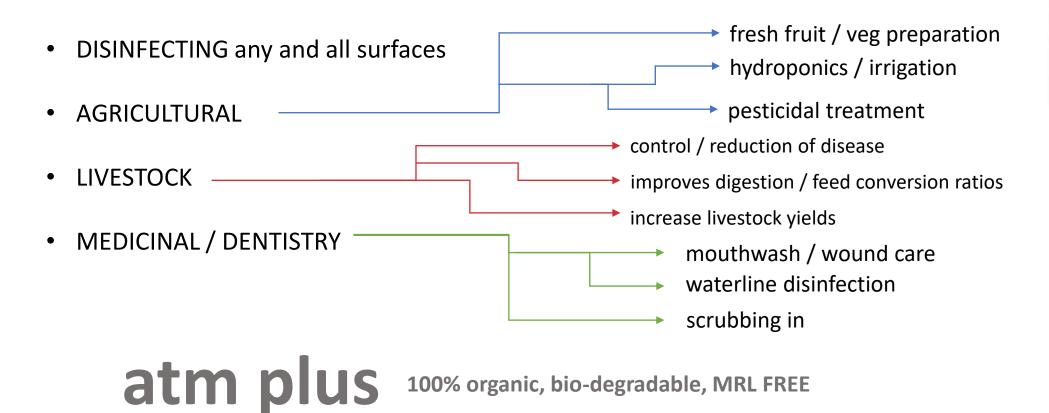








USES OF atm plus





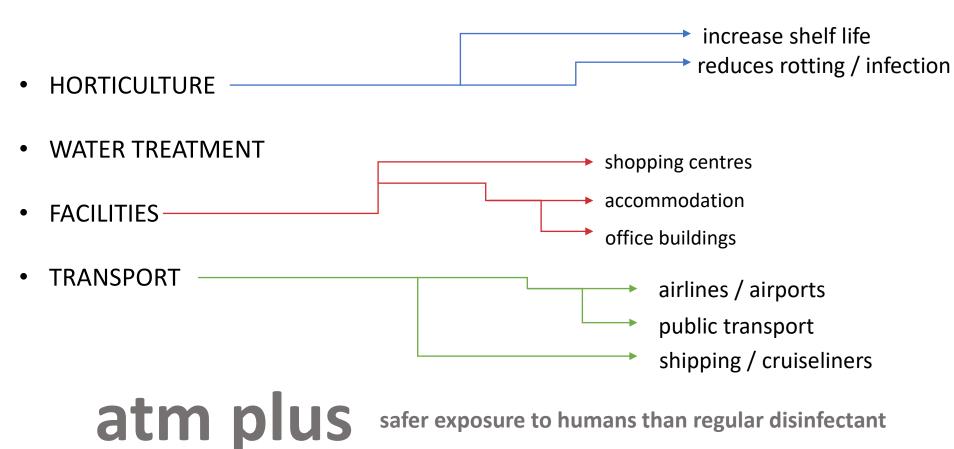












safer exposure to humans than regular disinfectant











atm plus: GENERAL USE





atm plus CAN BE USED TO CLEAN AND SANITIZE:

- Floors and walls
- Preparation areas
- Workers' hands, clothes and shoes
- Food contact surfaces





'As a Disinfectant/Sterilant, HOCI has greater killing power than Chlorine, Chlorinated Water, Chlorine Dioxide, Sodium Hypochlorite, Hydrogen Peroxide and Ozone'

atmplus gentle, effective, safe – NO PPE NECESSARY



atm plus: MEAT PROCESSING



- POULTRY
- BEEF
- FISH
- PIGS
- GAME

'We applied electrolyzed water (EW) directly to multi-strain cocktails of *Listeria monocytogenes, E. coli* 0157:H7, and *Salmonella* sp. at 250 ppm free available chlorine (FAC) and achieved greater than 6-log reductions in 2 min'

atmplus reduces overall bacterial spread



atm plus: MEAT PROCESSING



MAY BE SAFELY (USDA-FSIS approved) USED ON:

- Red meat carcasses down to a quarter of a carcass ٠
- Whole or eviscerated poultry carcasses ٠
- In water used for processing and reprocessing contaminated carcasses
- On giblets and salvage parts
- On beef primals



'EW can be applied in a pH range between 2.6 and 7.0 while still achieving complete inactivation of the bacteria'

atm plus recommended use at 5 – 50PPM







- Reduces biofilm formation with SUBMERSIVE treatments of 30 seconds ٠
- Eliminates bacterial contamination
- Effectiveness is not dependent on surface type ٠
 - Plastic cutting boards 0
 - Wooden cutting boards 0
 - Steel preparation areas Ο

'For fresh meats, a commonly used antimicrobial is organic acids like HOCI {atm plus} atm plus should be used with an appropriate degreaser









atmplus recommended use at 100 - 200PPM





DESTRUCTION OF BIOFILM AND SCALE IN WATERING SYSTEMS









atmplus recommended use at 100 - 200PPM

