

## **Overall!**

- Made from Hypochlorous Acid
- HOCl has been used for over 100 years, and is now being made with new technology from Japan.
- It's a strong disinfectant that's also completely nontoxic, and it works in mere seconds (unlike others which need to sit for 5-10 minutes).
- 100x stronger than bleach, but completely safe for humans, and the environment.
- It's been used around the world, especially in commercial fogging machines in airports, offices, etc. And has been popular in the muslim world as a non-alcohol based disinfectant.

## **Why is it great?**

- Safe for all surfaces
- Works in 3 seconds or less
- Can be used on hands or as first aid
- 100x stronger than bleach
- No-alcohol (halal), No-bleach, No-ammonia
- After it's done working, it basically turns into saline water, so you don't need to rinse it off!

## **Where do I use it?**

- You can use it on any surface - think - dirty cutting boards, taps, handles, switches, steering wheels, phones, etc.
- Also use it on dirty things like toilets
- Uses it on smelly things like toilets, bins, shoes → it kills all the odor causing microbes.
- Use as a first aid spray or on hands.
- Use it on your toothbrush to get rid of nasties.
- It's safe enough to use on baby items - pacifiers, baby toys, bottles, etc.

## **How long does it last?**

- Our Instant disinfectant has a 12 month shelf life while unopened. Once you start to use it, aim to use it within 3 months.

## **Is it like bleach? How is it safe on the body?**

- It is also in the chlorine family, but unlike bleach, it is much safer for us.
- Bleach is a known irritant to the lungs, and super harsh on the hands/skin
- HOCl on the other hand, is the same pH as our skin, and is 100x more effective than bleach, working much faster!

## **How does it work?**

- **Short**
  - It instantly penetrates cell walls for virus, bacteria and fungi and destroys them.
  - Actually our body's immune system also makes HOCl to attack microbes and pathogens.
- **Long**
  - Machines basically throw salt (NaCl) at water (H<sub>2</sub>O)
  - HOCl (unlike bleach), has a neutrally charged molecule.
  - This means it is not rejected/repelled by negatively charged bacteria.
  - This means it can enter the cell, destroying the cell wall and vital parts inside.
  - Bleach (sodium hypochlorite) is positively charged, which is repelled by bacteria - that's why it takes longer to work.

## **Is it approved?**

- EPA & WHO approved for COVID disinfectant.
- In Kenya, approved by KEBS as a surface disinfectant, and by PPB as a non-alcohol based instant hand sanitizer.
- Our concentrations are also in line with US FDA guidelines as an organically approved no-rinse disinfectant on fruit and veg - this can extend the shelf life as well.