

Reliant Tabs

Frequently Asked Questions



What are Reliant Tabs?

Reliant Tabs are Sodium Dichloroisocyanurate, or NaDCC, tablets that dissolve in water to release Hypochlorous Acid (HOCl) and monosodiumcyanurate (a non-toxic biodegradable compound).

What is Sodium Dichloroisocyanurate (NaDCC)?

NaDCC is an organic chlorine donor that has unique organic properties and is a fast-acting, powerful biocide. **NaDCC is NOT a hypochlorite.**

What is Hypochlorous Acid (HOCl)?

Hypochlorous acid is a weak acid that is stable and is highly microbicidal against bacteria, viruses, and fungi. Hypochlorous acid is the same substance your white blood cells produce to fight infection. It's even USDA approved for use in organic crop production.

What's the difference between Hypochlorous Acid and Bleach?

They are very different and have very different chemical formulas. The formula for bleach, or sodium hypochlorite, is NaOCl & the formula for hypochlorous acid is HOCl.

Hypochlorous acid is a component in bleach – it's the molecule that kills microbes. When the pH of bleach is lowered (made acidic) the hypochlorite converts to hypochlorous.

Bleach is defined as: 1.) having a pH of 11+, 2.) being at a concentration high enough to remove the color from fabric, and 3.) 99%+ NaOCl; none of these apply to hypochlorous acid. In fact, it's so gentle, it's used in wound healing products.

Is Hypochlorous Acid better than bleach?

Hypochlorous Acid (HOCl) has a similar chemical structure to water. It is also similar in size and electrically neutral, thus enabling it to penetrate cell walls in a similar manner as water. Bleach is electrically charged, which makes it difficult to penetrate cell walls. Hypochlorous Acid is also not as easily inactivated by organic material as bleach is.

An interesting fact is that you need a lot more bleach to achieve the same anti-microbial power as hypochlorous acid. The order of magnitude varies by microbe, but overall HOCl is a much more efficient antimicrobial than bleach, so you don't need nearly as much. That's why it's used in so many industrial applications where gentleness (for example on skin, animals, produce) is critical. Examples are eye, wound healing & veterinary care products.

Where is Hypochlorous Acid used?

- **In food service and water distribution:** as a disinfectant to treat food preparation surfaces and sanitize water supplies.
- **In biology:** for the destruction of bacteria.
- **In the cosmetics industry:** it is used on the skin. It is also used in baby products.
- **In water treatment:** hypochlorous acid is the active sanitizer in hypochlorite-based products (e.g. used in swimming pools).
- **In the livestock industry:** it is used to sanitize animal water supply, clean water lines, disinfect buildings and equipment, in truck washes and foot baths.

What's the difference between Sanitation and Disinfection?

Sanitizing is meant to reduce, not kill, the occurrence and growth of bacteria, viruses and fungi.

Disinfecting a surface will “kill” the microscopic organisms as claimed on the label of a product at the appropriate strength and contact time.

Why should I use Reliant Tabs?

- Highly effective against numerous pathogens
- User safety
- Easy to use
- Easy to store
- Cost effective