CHLORINE BASED DISINFECTANTS

Vs

EndoSan®

Stabilised Hydrogen Peroxide

BIOFILM

- Chlorine is **ineffective** at penetrating and removing biofilms.

EFFICACY

- Chlorine is an oxidiser **unable to effectively** penetrate biofilms. Chlorine is also **ineffective** against amoebae.

IRRITANT

- Even at low dose levels chlorine is **irritating** to the nose, throat and skin.

HEALTH CONCERNS

- When chlorinated products mix with acids or acidic liquids then **toxic chlorine gas** is released.
- When chlorine reacts with organic matter it creates Trichloromethanes (TCM) and Trihalomethanes (THM). Studies suggest that THM's are **carcinogenic** to animals and humans.
- The EPA regulates that there must be a THM presence of less than 80ppb in water systems.
- Chlorine vapours can be very **aggravating** to asthma sufferers.

CORROSION

- Chlorine is **corrosive** to metals, rubbers and fabric. This can cause an increase in repair and maintenance costs and requirements over time.

pH

- Outside of a neutral pH range Chlorine **decreases in efficacy**.

TEMPERATURE

- Chlorine **decreases in efficacy** at higher temperatures and becomes unstable above 45°C.

TAINT

- Chlorine has an **obvious taint**. It has a noticeable strong odour and taste.

DISPOSAL

- Chlorine **requires neutralisation** before disposal. Incorrect neutralisation can be toxic to aquatic life.

BIOFILM

- EndoSan is **highly effective** at penetrating and removing biofilms.

EFFICACY

- EndoSan is a **powerful** oxidiser that **effectively** penetrates and destroys biofilms. EndoSan is bactericidal, virucidal, sporicidal, fungicidal, algaecidal and amoebicidal.

IRRITANT

- At dose levels EndoSan causes **no irritation** to the nose or throat.

HEALTH CONCERNS

- EndoSan releases **no toxic gasses**.
- EndoSan produces **no TCM's or THM's**.
- EndoSan is biodegradable, creating **no harmful by-products**.
- EndoSan simply degrades into water and oxygen.

CORROSION

- EndoSan is **non-corrosive** at dose rates. This results in lower repair and maintenance costs and requirements over time.

pH

- EndoSan is **effective at a wide pH range**. Outside of a neutral pH range EndoSan continues to be effective.

TEMPERATURE

- EndoSan is **stable and effective** at a wide range of temperatures.

TAINT

- EndoSan has **no taint**. It has no colour, taste or odour at dose levels.

DISPOSAL

- EndoSan has **no neutralisation** requirements at dose levels.