



PRODUCT DATASHEET

GENERAL

Biocide for use in livestock drinking water systems for the removal of biofilm, organic material and reduction of pathogens.

MODE OF ACTION

Sodium chlorate is highly effective against certain pathogenic Enterobacteriaceae such as salmonella and e. coli. The chlorate ion is metabolized in these bacteria to produce an intracellular ion (chlorite) that is toxic and kills the bacteria. It is specific to pathogenic Enterobacteriaceae because this group of bacteria have a respiratory nitrate reductase activity (*Benner 1984, Manual of Systemic Bacteriology Vol 1.*)(*Byrd et al 2003, Poultry Science 82:1403-1406*). Hydrogen peroxide is a strong oxidizing agent that kills bacteria, parasites, and pathogens such as salmonella, E. coli and cryptosporidium on contact by oxidization of the cell membranes.

INGREDIENTS

Hydrogen peroxide (25%) (CAS# 7722-84-1), Sodium chlorate (15%) (CAS# 7775-09-9), Water (60%), Oxidation Stabilizer.

DOSAGE AND DIRECTIONS FOR USE

For sanitation and disinfection during washing (when animals are not drinking water):

- Mix KripClean® at a ratio of 5 liters per 100 liters of water. Let it stand in the pipes and tanks for at least 20 minutes. Afterward, flush thoroughly to remove all biofilm and organic material loosened by KripClean®. Finally, fill the system with clean potable drinking water.

For load reduction in drinking water and gut while animals are drinking water:

- Mix KripClean® at a ratio of 5 liters per 1000 liters of water. Allow fresh water to refill as animals drink, enabling gradual dilution.

HANDLING



Sodium chlorate and hydrogen peroxide are strong oxidizing agents and will be corrosive to metal and other sensitive surfaces. Handle product with care and use proper protective clothing such as rubber gloves, apron, and eye splash protection. Sodium chlorate is potentially poisonous and should not be ingested or inhaled at any stage. When accidentally ingested, the patient should immediately be transported to hospital for proper care by medically trained staff. Refer to MSDS for more information.

STORAGE

Store this product in a well-ventilated storeroom, locked to prevent access by uninformed or untrained personnel. Keep it in a cool, dark place, away from organic materials or food products such as cotton, sugar, and wood. Avoid storing on wooden pallets and keep the product away from heat and light sources. Prevent spillage and crystal formation, as dry sodium chlorate is highly flammable. Maintain storage temperatures between 5°C and 40°C.

PACKAGING

Packed in 1L, 5L and 25L plastic containers with venting lids.

