



RX MARINE INTERNATIONAL
Total Solution Total Protection
AN ISO CERTIFIED COMPANY



Calcium Hypo Chlorite Conc active Chlorine

Part/Order no:	Packing
RXSOL-31-3026-25	25 Ltr
RXSOL-31-3026-210	210 Ltr

Calcium Hypo Chlorite Conc active Chlorine:

Decolorant for cargo hold cleaning & Germicide and Disinfectant for ship sanitation system solution is widely used in water works for the chlorination of water. It is more commonly used for disinfection of waste water in treatment plants. High-test hypochlorite (HTH) is sold for chlorination of swimming pools and contains approximately 30% calcium hypochlorite. The crystalline salt is also sold for the same use; this salt usually contains less than 50% of calcium hypochlorite. However, the level of active chlorine may be much higher. Calcium Hypochlorite is a multi-purpose chemical of disinfectant, decolorant, germicide, antiseptic and bactericide.

Application:

Calcium Hypochlorite, $\text{Ca}(\text{OCl})_2$

A pale clear liquid, crystalline oxidizing material.
Hazard: Toxic by ingestion, skin contact and inhalation. Dangerous fire risk when in contact with organic materials. Used as an algicide, bactericide, deodorant, portable water purifier, and disinfectant for swimming pools etc.

Dose:

General formulation to calculate how much bleach is needed to add to a tank or a pipeline to disinfect it to a given chlorine residual using a given disinfectant. Usually someone wants to know how to meet an AWWA Standard (like C651-92, Disinfection of Water Mains). The equation below should be used to estimate the amount of sodium / Calcium hypochlorite (Chlorine Water is 6.00% sodium hypochlorite) needed to disinfect a given quantity of water to a desired chlorine concentration.

$$\text{Volume of hypo} = \text{volume of water} \times \left(\frac{\text{req'd residual in ppm}}{1,000,000 \times \text{hypo \%}} \right)$$

For example, say you had installed a new 5,000 gallon tank and wanted to make sure that you had at least a 100 ppm solution of chlorine in it.

How much 6.00% Hypochlorite would you need to add ?

- $(5,000 \text{ gal} \times 100 \text{ ppm}) / (1,000,000 \times .06) = 8.33$ gallons.

How much 12% Hypochlorite solution would you need ?

- $(5,000 \text{ gal} \times 100 \text{ ppm}) / (1,000,000 \times .12) = 4.17$ gallons.

If you use calcium hypochlorite (the white, powder version of chlorine, like HTH pool cleaner), the equation becomes: