

SANITAB

Water Purifier

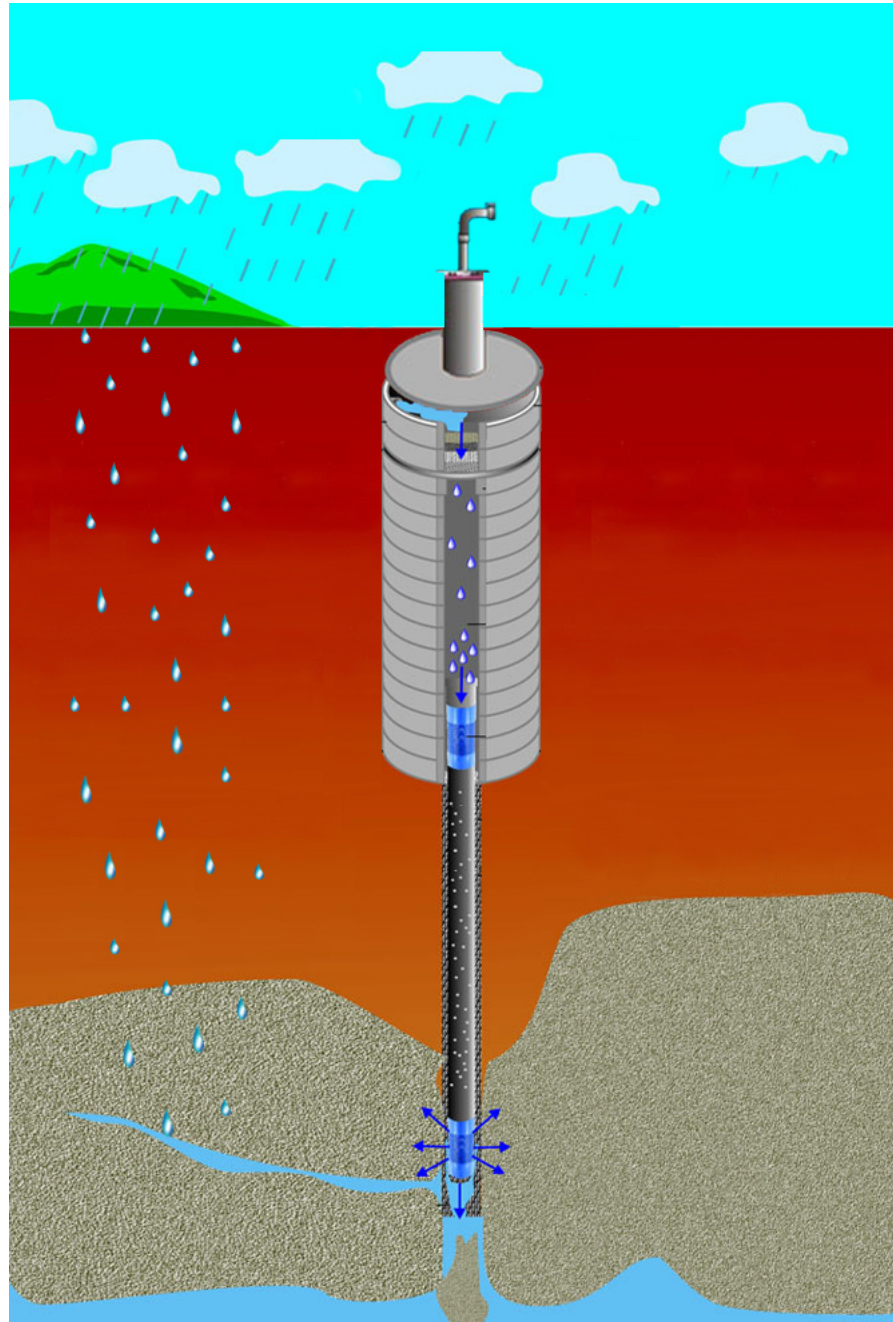


Water is essential for life and plays a critical role in:

- 1. Respiration**
- 2. Digestion**
- 3. Absorption**
- 4. Circulation of nutrients**
- 5. Excretion**
- 6. Hydrolysis**



Most of the
animal farms
uses
underground
water



Contaminated Water Leads to

- Reduced breeding, laying, growth and performance
- Mortality
- Feed conversion efficiency
- Reduced shell and meat quality
- Immunosuppression

REDUCED PROFITS FOR THE FARMER



Nuisance in water

Water carries many pathogenic microorganisms as

- *E. coli*
- *Salmonella*
- *Campylobacter*
- *Vibrios*
- *Entamoeba*
- *Hepatitis Virus*
- *Listeria*
- *Leptospira*



SANITAB

Sodium dichloroisocyanurate

1. Sodium dichloroisocyanurate, (NaDCC), is the sodium salt of dichloroisocyanuric acid.
2. NaDCC is a product containing 64.5% of available chlorine.
3. NaDCC releases free available chlorine in water in the form of hypochlorous acid (HOCl).
4. Hypochlorous acid is the active microbiocidal agent.



Unique Properties of NaDCC

NaDCC dissolves in water to release HOCl –
measured as available chlorine



Dissociation of Hypochlorous Acid

All sources of available chlorine release hypochlorous acid (HOCl) when dissolved in water. The reaction for chlorine gas is as follows:



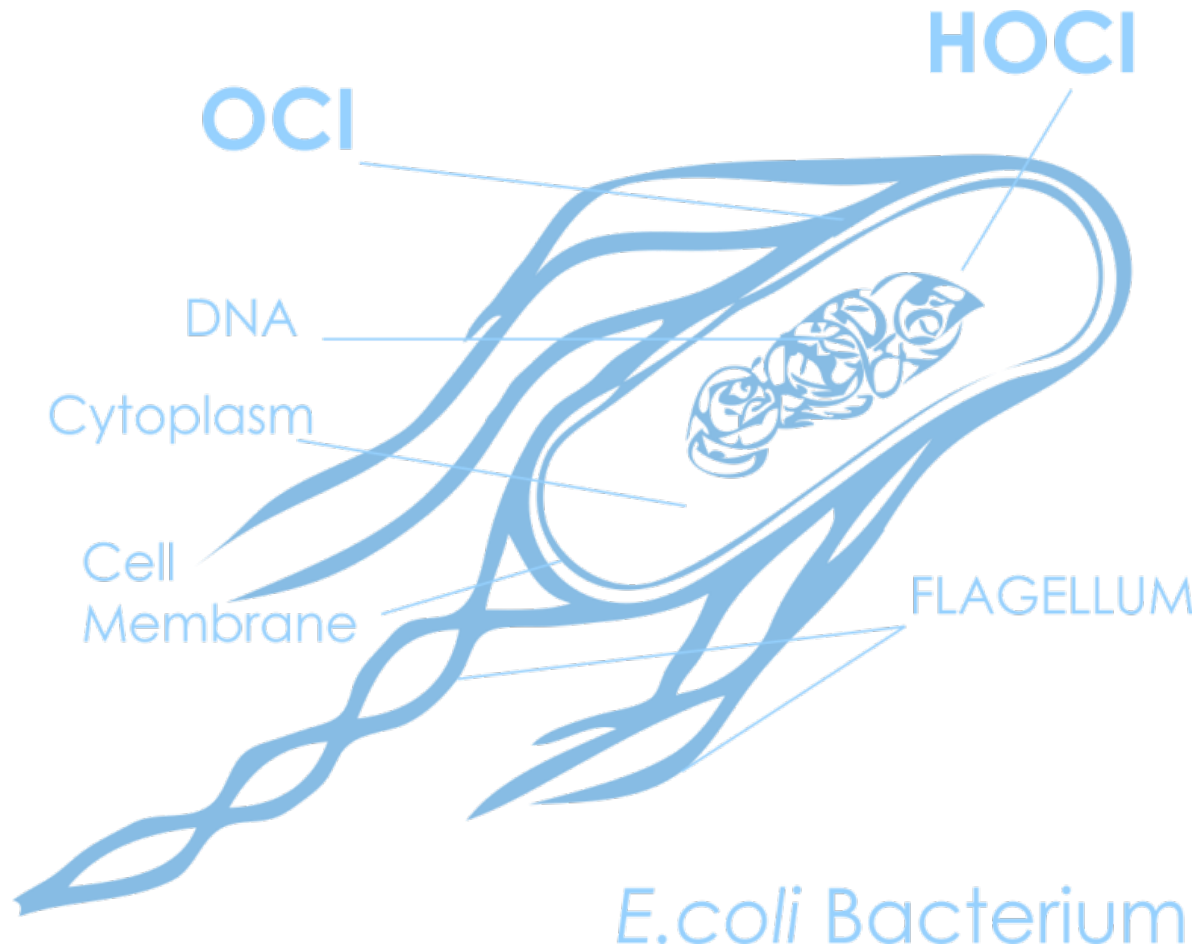
Chlorine gas rapidly hydrolyses to produce HOCl and hydrochloric acid ($\text{H}^+ + \text{Cl}^-$). This is an equilibrium reaction, but the hydrolysis is almost complete at neutral pH.

The ratio of “free” and “combined” available chlorine always remains at 50:50



HOCl vs. OCl⁻

Bacterial Membrane Permeability



Are there other benefits from **SANITAB**?

Detailed studies on pig and poultry farms have shown:

- **Reduced Mortality**
- **Better Feed Conversion Efficiency**
- **Improved Growth Rate**
- **Reduction in *Salmonella* incidence**
- **Approved for lifetime use in humans (WHO)**



Disinfection farm water

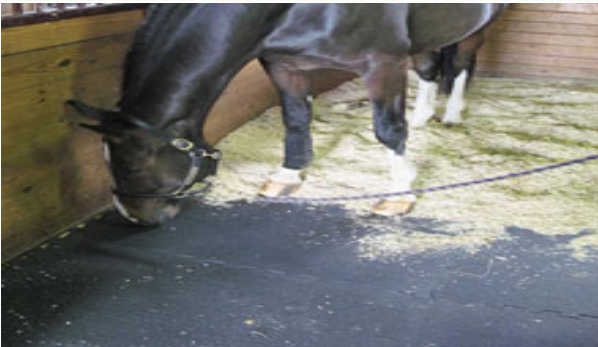
- Sanitab tablets are used for provision of clean, safe drinking water for farm animals
- 1 Sanitab per 600 liters of drinking water (4-6 mg / liter available chlorine)



Disinfection of surfaces and equipment on farms



- Porous Surfaces: 1 Sanitab per 6 liters water (500 mg/liter available chlorine)



- Non-Porous Surfaces: 1 Sanitab per 15 liters water (200 mg/liter available chlorine)



- Equipment: 1 Sanitab per 6 liters water (500 mg/liter available chlorine)



Disinfection of teat/udder:

- 1 Sanitab per 100 liters of water



Disinfection of animals in slaughter house:

- Sanitab tablets are used for disinfection of eggs, fishes and animal carcass in slaughter house: 1 Sanitab per 200 liters water



**What is the cost to the
farmer for **SANITAB**?**



Layer Bird Farmers :

Laying Age : Week 20 to Week 72= about 365 days

Prices are in U.S. Dollar

- On an average bird drinks 300 ml per day
- So for 1 year (365 days) $\rightarrow 300 \text{ ml} \times 365 \text{ days} = 1,09,500 \text{ ml} = 110 \text{ L}$
- 110 L per bird per year
- Our dosage is 600 L per 1 tablet
Each bird requires 110 L $\rightarrow$ bird requires 0.18th of a tablet
- One tablet costs US\$0.18 – so 0.18th of a tablet will cost \$0.0324
- So cost of Sanitab per bird per year is **\$0.0324**
Cost of 12 Eggs = 12.65 ILS ; 1 Egg = 1.05 ILS (= \$0.28)
- **Cost of Sanitab per bird per year is less the price of 3 Egg**

Broiler Bird Farmers :

Age: 1 Day Old to 25 Days (5 Weeks)

Prices are in U.S. Dollar

	Age	Average water consumption for 1000 birds per day in L	Weekly Consumption in L
Week 1	1-7 days	55	385
Week 2	8-14 days	100	700
Week 3	15-21 days	240	1680
Week 4	22-28 days	315	2205
Week 5	29-35 days	400	2800

Total water consumption for 5 weeks = 7770 L for 1000 birds
For 1 bird = 7.77 L (~8 L)

Dosage: 600 L = 1 Sanitab

8 L = 0.0133rd of a Sanitab tablet

0.0133rd of a tablet costs = \$0.0024

Cost of Sanitab per bird for entirety of 35 days is \$0.0024 or 0.01 ILS



Available as:
Bucket Containing 100 tubes
of 15 tablets each

Sanitab is an easy to use, multipurpose effervescent tablet to clean and purify water for drinking and cleaning purposes. Sanitab improves your animals' health and productivity.

