



Safety_{health} cleaning standard hygiene antiseptic sanitation KLORIAB quality virus NaDCC bacteria sanitizer performance hospital



WIPING SPRAYING FOGGING

Effervescent Surface Disinfection Tablet





ADA AQUA EXPERIENCE Ada Aqua's core business is the research, development, production and sales of the Klortab NaDCC tablets in Turkiye.

Our products are used in the sectors very successfully Human Health

Animal / Farm Hyigene



EBOLA: 1.000PPM

COVID-19: 1.000PPM



HUMAN HEALTH

Hospital disinfection

Water disinfection

KLORT / IB Nadcc

Food Processing and catering services disinfection

Baby Feeding Bottle Disinfection





ANIMAL-FARM HYGIENE

Mastitis prevention

Water disinfection Farm Environmental Disinfection, poultries, dairies







WHY IS HOCI 100 TIMES MORE STRONG?

HOCI has the equal chemical structure to the water (H2O).

It is equal format and it is electrically inactive

These parameters enable it to pass through into the cell wall in a equal way to water

OCI- is electrically charged which makes it difficult to pass through into the cell wall.



The mechanism is uncertain.

m Destroy the protein and enzyme systems Spread out through

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HOW DOES HOCI KILL THE MICROORGANISMS?

the cell wall.





Incomporable specialities of NaDCC Only 50% of the "total" available chlorine is actually present as "free" available chlorine. The percentage of "free" and "combined" available chlorine always 50:50.

NaDCC dissolves in the water to deliver HOCI – measured as available chlorine. The rest of them is "combined" in the form of mono or dichloroisocyanurate

 $NaDCC + 2H_2O \implies NaCy + 2HOCI$

50% "combined" available chlorine 50% "free" available chlorine



THEEQUALITY

4

"Free available" chlorine used for the organic substance and microorganisms the equality is failed.

+

Part of "combined" available chlorine is "released" to restore the 50:50 equality.

50%

COMBINED

This situation occurs all the "combine" available chlorine is used up..

50%

FREE

This is matchless to NaDCC – but does it matter?





At the same solution strength (125ppm) the NaDCC had about twice the bactericidal capacity, and at half the solution strength, (62.5ppm), it still retained a similar capacity.



IT MATTERS NUMEROUS...

NaDCC has greater biocidal activity than hypochlorite even if at the same pH level.

This is fully because of 50:50 mechanism, which is not covered by hypochlorites.

The studies prove that NaDCC has up to 4 times destroying strength of hypochlorites



Comparison of the levels of available chlorine demanded to obtain a 99,999% kill of Pseudomonas aeruginosa in 2 minutes at 25°C' in the presence of horse serum. As the level of organic contamination increases, the solution strength required from hypochlorite to achieve the same killing power as NaDCC increases to over 4 times.





BIOCIDAL STUDIES



Effects of milk on the bacterial capacity of NaDCC and NaOCI solutions containing 125ppm available chlorine against E. coli.



In the above study 2 % milk rendered NaOCI virtually inactive, whereas NaDCC at the same solution strength (and pH) still had a capacity to kill over 108 organisms per ml.



RESULT

NaDCC, has uniqe features that make it a superior chlorine donor.

Good effervescent -

acidic solutions

50:50 equality

Superior performance

Long Lasting

High effectiveness Convenient, varied application







USA: UP TO 2 MILLION HEALTHCARE-ASSOCIATED INFECTIONS PER YEAR, OF WHICH 80.000 ARE LETHAL OR MAY CONTRIBUTE TO DEATH.

EUROPE: 5 MILLION HOSPITAL ASSOCIATED INFECTIONS PER YEAR, OF WHICH 50.000 (1%) ARE LETHAL OR CONTRIBUTE TO DEATH IN 135.000 CASES (2.7%).

JAPAN: RESISTANCE ISOLATION RATE OF MRSA (METHICILLIN-RESISTANT STAPHYLOCCUS AUREUS): 40 – 80%

INDIA: AN ESTIMATED 10 TO 30 % OF PATIENTS ADMITTED TO HOSPITALS AND NURSING HOME ACQUIRE A NOSOCOMIAL INFECTION.

UP TO 70% OF ORGANISMS CAUSING HOSPITAL ASSOCIATED INFECTOINS ARE RESISTANT TO AT LEAST ONE ANTIBIOTIC.



Is your hospital's disinfection method putting you at risk?

According to a recent study published in the American Journal of Infection Control. laundered cloth and microfiber towels used for cleaning in hospitals contain live bacteria that could put patients risk of contracting a Healthcare Associated Infection

KLORT/B

NaDC



associated bacter

bacteria Including • E. coli Coliforms links to feces Pneumonia



It's time to rethink laundered towel disinfection.

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- 2 2005 The Burdey' Contest for Disease Control and Presenting, www.stdt.gov 3. "Heathcase Automated Mantesis" Agency for Heathcase Resident and Guide, www.stdt.gov.

in the U.S.

CONFIRMATION OF EFFECTIVENESS IN THE HOSPITAL ENVIRONMENT



BACTERIA

MYCOBACTERIA

st fr

FUNGUS

SPORES

H

VIRUS





DISINFECTION IS IMPORTANT AT THREE LEVELS

HIGH MEDIUM LOW



USING AREA

MICROBICIDAL ACTIVITY

	Sporicidal	Tuberculocidal	Virucidal	Fungicidal	Bacteriocidal
HIGH LEVEL	*	*	*	*	* /
		*	*	*	*
LOW LEVEL		_	_		*



FOOD PREPERATION

New EC directives demand conformation with HACCP systems

HACCP = Hazard Analysis Critical Control Points

Quality Assurance system for food safety



VALIDATION OF EFFECTIVENESS

Bacteria

Aerobacter aerogenes Campylobacter jejuni Enterococcus faecium E. Coli Klebsiella pneumoniae Listeria monocytogenes Proteus vulgaris Pseudomonas aeruginosa Salmonella faecalis Salmonella typhi Staphyloccus aureus Sptreptococcus GpD

Virus

Adenovirüs Polio HBC Herpes simplex

Fungi

Aspergillus niger, Candida albicans Scopulariopsis brevicaulis

Spores

Bacillus subtilis Clostridium perfringene Clostridium tetani

Mycobacteria

Mycobacterium smegmatis

ASK FOR LITERATURE STUDIES



3,4 GRAM

- Klortab NaDCC (3,4 gram x 200 tablets) Disinfection Tablets have 3.4 gram nominal weight and contains 65 % active available chlorine.
- Klortab NaDCC has an excellent effect against bacteria, virus, mycobacteria, fungi and spores.
- Commercial presentation: 3.4 gram x 200 tablets/tub
- The Klortab NaDCC tablets are produced very precision and simple process by the supporting of Hacettepe University and Ministry of Science, Industry and Technology in the framework of Santez Project at the production facility of ADA AQUA KİMYA SANAYİ VE TİCARET A.Ş. The Klortab NaDCC is a broad-spectrum biocide produced as effervescent tablet and is a wonderful formulation creating a well known and real strong disinfection solution.







3,4 GRAM





USING AREAS

General Disinfection Non-sensitive Surfaces:

1 tablet to 5 liter water (The necessary Klortab NaDCC Solution Strength: 200ppm)

Disinfection of Sensitive Surfaces:

1 tablet to 1 liter water (The necessary Klortab NaDCC Solution Strength: 1.000ppm)

HIV, HBV and Similar:

Contaminated surface or equipment 5 tablets to 1 liter water (The necessary Klortab NaDCC Solution Strength 5.000ppm)

Body fluid spillage (not urine):

10 tablets to 1 liter water (The necessary Klortab NaDCC Solution Strength : 10.000ppm)



5 GRAM

- Klortab[®] NaDCC (5GR X 100 TABLETS) Effervescent Disinfectant Tablets have 5 gram nominal weight, contains 2.5 gram active ingredient (NaDCC) and 1.5 gram available chlorine.
- Hypochlorites produce alkaline solutions with less than 10% undissociated HOCI.
- Commercial Presentation: 100 tablets/tubs
- Klortab NaDCC exposes acidic solutions with over 90% undissociated HOCI.

There is no necessity to measuring, pouring and mixing of Klortab NaDCC Tablets. Just add the required Klortab NaDCC tablet into the water according to type of area will be disinfected. Klortab NaDCC tablets dissolved in the water effervescently and constitute the real chlorine solution. The tablets are leakproof, do not splash around and not spread.

HOCI has the equal chemical structure to the water (H2O). It is equal format and it is electrically inactive. These parameters enable it to pass through into the cell wall in a equal way to water. OCI- is electrically charged which makes it difficult to pass through into the cell wall. The ratio of undissociated HOCI in any chlorine solution can be detected by measuring the pH.

100 times powerful HOCI



HOCI dissociates in alkaline conditions into the hydrogen ion (H^{\dagger}) and hypochlorite ion (OCI)





5 GRAM





USING AREAS

General Disinfection: Disinfection of Non-sensitive Areas:

1 tablet to 7,5 liter water (The necessary Klortab NaDCC Solution Strength : 200ppm)

Disinfection of Sensitive Areas:

1 tablet to 1,5 liter water (The necessary Klortab NaDCC Solution Strength : 1.000ppm)

HIV, HBV and Similar:

Contaminated surface or equipment 5 tablets to 1,5 liter water (The necessary Klortab NaDCC Solution Strength 5.000ppm)

Body fluid spillage (not urine):

10 tablets to 1,5 liter water (The necessary Klortab NaDCC Solution Strength : 10.000ppm)



17,4 GRAM

- Klortab NaDCC (17,4 GRAM x 60 TABLETS) Disinfectant Tablets are the armada of our products. They are 17.4 gram nominal weight and has 8.68 gram NaDCC and 65 % active available chlorine.
- Commercial presentation 60 tablets /tub.
- Klortab NaDCC Disinfection Tablets contain NaDCC and using the places have infection risk and the places maximum hygiene necessity as well as operation rooms, intensive care, dialysis units, laboratories, toilets, closet, urinals, showers, baths, dressing rooms and especially all the departments of the hospitals and also in kitchens and food preparation areas, washrooms, bedrooms, reception areas, Sluice rooms and lots more. Klortab NaDCC Disinfection Tablets having very easy using and applications. Therefore the infection commitees can easily control the users in the hospitals.





17,4 GRAM





USING AREAS

General Disinfection: Disinfection of Non-sensitive Areas:

1 tablet to 25 litre water (The necessary Klortab NaDCC Solution Strength : 200ppm)

Disinfection of Sensitive Areas:

1 tablet to 5 liter water (The necessary Klortab NaDCC Solution Strength : 1.000ppm)

HIV, HBV and Similar:

Contaminated surface or equipment 1 tablet to 1 liter water (The necessary Klortab NaDCC Solution Strength 5.000ppm)

Body fluid spillage (not urine):

2 tablets to 1 liter water (The necessary Klortab NaDCC Solution Strength : 10.000ppm)









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