



# DALCOCHEM

**DETERGENTS - DISINFECTANTS - COSMETICS - DISINFECTIONS - DISINFECTIONS – MYOCIDES**

## DALCO-100

Drinking water disinfectant  
IOCIDIC, BACTERICIDAL, FUNGICIDE  
STABILIZED CHLORINE DIOXIDE (ClO<sub>2</sub>)  
UFI: C37V-S17U-K007-M8D7

### Description

DALCO-100 is an approved disinfectant for water and food processing facilities, medicines with a wide range of antimicrobial protection. Provides complete deodorization and antiseptic on solid surfaces and areas. It is compatible with HACCP-ISO 22000 disinfection issues, approved by the EOF as well as by the FDA and EPA (USA).

### FIGHT IMMEDIATELY:

EUROPEAN STANDARDS		STEM	CONDITIONS
EN 1276 EN 1040	Bactericidal action	Staphylococcus aureus, Pseudomonas aeruginosa, Escherichia coli, Enterococcus faecalis κ.α.	5 minutes at 20 ° C under clean conditions
EN 1650	Fungicidal action	Candida Albicans, Aspergillus niger κ.α.	5 minutes at 20 ° C under clean conditions
EN 14476	Virucidal action	Full virulent action against all encapsulated viruses, such as HBV, HIV, Influenza H1N1, Coronavirus, Modified Vaccinia Ankara Virus etc.	

### Advantages

- It is highly effective, with strong biological action 2.6 times stronger than hypochloritesodium with great residual activity.
- The action is due to the strong oxidizing ability and not to chlorination reactions, while the production of carcinogenic chloroproducts (Trichloromethane, chlorophenols, etc.) is completely avoided.
- Provides proven complete destruction of biofilms (biofilm) maintaining the water supply networks in excellent condition.
- Its disinfectant action is not affected by high temperatures against chlorine.
- Provides complete deodorization as well as excellent disinfectant action on solid surfaces and places.
- Used by simple dosing systems already on the market and does not require complex and complex addition devices.



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### Instructions for use-applications

It is used diluted in application doses according to the case:

- With the method of immersion for the disinfection of utensils and tools.
- By the method of spraying for disinfection of surfaces.
- With the method of Cold Fogging for the disinfection of areas-tumors in (handicrafts and food industries, hospitals, schools, places of sanitary importance).

In food processing areas when we use large concentrations and when we want to use the workbench or utensil immediately, we must rinse or wipe the surface and the utensil respectively. The use of gloves is required.

### Solution preparation

Studies in international and Greek certified laboratories have shown that DALCO-100 is a very active biocidal product, giving excellent results with small contents and in a minimum of time. It can be used simply diluted to one of the recommended contents (see table below) for perfect and immediate results it can be activated with a mild organic acid e.g. citric or acetic acid (vinegar or lemon).

### DALCO 100 solution activation instructions

Prepare the solution by diluting DALCO 100 depending on the use (see table below). Then lower the pH of the solution to 2.5-3 by adding a minimal amount of mild organic acid such as acetic or citric.

**CAUTION:** Activation is always done in the diluted solution.

**Activation time 15-20 minutes.**

TABLE WITH PROPOSED PROPORTIONS		
USES OF DALCO 100	CONCENTRATION	
Disinfection of utensils in food processing areas and areas of sanitary importance (by the method of immersion or spraying).	100 ppm	5 minutes
Disinfection of surfaces (workbenches, floors, Cold rooms) by the method of spraying or Volumetric disinfection using a cold fogging.	200 ppm	5 minutes
Disinfection of surfaces and areas for treatment special problems with the cold fogging method.	500 ppm	10 minutes
Deodorization and disinfection of wells and sewers by the method of spraying.	500-1000ppm	10 minutes
USE OF THE PRODUCT IN WATER FOR HUMAN CONSUMPTION MUST DONE IN ACCORDANCE WITH THE TEXT PROVISIONS ON DISINFECTION AND QUALITY DRINKING WATER BASIS OF KYA Y2 / 2600/2001 (Government Gazette B892 / 11/7/01)		



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**DETERGENTS - DISINFECTANTS - COSMETICS - DISINFECTIONS - DISINFECTIONS – MYOCIDES**

**INDICATIVE TABLE WITH ACTIVITY RESULTS, CONTACT TIME AND CONCENTRATIONS CLO2  
THE DATA COMES FROM STUDIES OF INTERNATIONAL AND GREEK CERTIFIED LABORATORIES AND HAVE BEEN SUBMITTED TO THE EOF.**

MICROORGANISM	CONCENTRATION	CONTACT TIME	% POPULATION REDUCTION
Aspergillus lumigalus (spores)	200 ppm	60 seconds	99.9
Bacillus cereus (spores)	200 ppm	5 minutes	99.9
Escherichia coli	100 ppm	30 seconds	99.9
Legionella pneumophila	25 ppm	60 seconds	99.9
Listeria monocytogenes	100 ppm	30 seconds	99.9
Pseudomonas aeruginosa	500 ppm	10 minutes	100
Pseudomonas aeruginosa	100 ppm	60 seconds	99.9
Candida albicans	100 ppm	60 seconds	99.9
Saccharomyces cerevisiae	100 ppm	60 seconds	99.9
Proteus mirabilis	100 ppm	60 seconds	99.9
Salmonella typhimurium	100 ppm	60 seconds	99.9
Streptococcus faccium	100 ppm	60 seconds	99.9
Staphylococcus aureus	93 ppm	60 seconds	99.9
Proteus vulgaris	100 ppm	60 seconds	99.9
Trichophyton Mentagrophytes	500 ppm	5 minutes	100
Klebsiella pneumonia	390 ppm	30 minutes	99.9
Salmonella choleraesius	500 ppm	10 minutes	100
Newcastle disease virus	500 ppm	10 minutes	100% virucidal
Pseudorabies virus	500 ppm	10 minutes	100% virucidal
Canine parvovirus	500 ppm	10 minutes	100% virucidal

## Technical information

Appearance: Colorless, odorless liquid

Product pH value 9.0 ± 0.5

The above data are indicative of the normal production process and should not be taken as product specifications.

## Precautions and storage instructions

### Description of first aid measures

#### General information:

Take affected persons out into the fresh air.  
Seek immediate medical advice.



# DALCOCHEM

## DETERGENTS - DISINFECTANTS - COSMETICS - DISINFECTIONS - DISINFECTIONS – MYOCIDES

### After inhalation:

In case of unconsciousness place patient stably in side position for transportation. Seek medical treatment in case of complaints.

### After skin contact:

Wash the skin immediately with soap and water. In case of skin irritation, consult a physician.

### After eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs. Avoid strong water jet-risk of cornea damage, consult a doctor.

### After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately. Do not induce vomiting; call for medical help immediately. Seek immediate medical advice. Never give anything by mouth to an unconscious person.

## HANDLING AND STORAGE INFORMATION

### Operation:

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Remove contaminated clothing. Ensure good ventilation. Prevent formation of aerosols.

### Save:

**Storage:** Store in cool, dry conditions in well sealed receptacles. Keep away from heat and other ignition sources. Do not freeze. Avoid ultraviolet radiation. Do not let it dry.

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

**Information about storage in one common storage facility:** Keep away from food, beverages & animal feed. Store in a shady place. It is not stored together with strong oxidizing agents. Do not store together with acids.

**Further information about storage conditions:** Keep container tightly sealed.

## INDICATORS OF RISK AND PRECAUTION

Classification according to Regulation 1272/2008 (CLP).

### Hazard pictograms:



**GHS07**

**Signal word:** Warning



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## **Hazard Statements**

**H315:** Causes skin irritation.

**H319:** Causes severe eye irritation.

## **Precautionary Statements**

**P102:** Keep out of reach of children.

**P280:** Wear eye protection / face protection

**P302 + P352:** IF ON SKIN: Wash with plenty of water and soap.

**P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P332 + P313:** If skin irritation occurs: Consult a physician.

**P337 + P313:** If eye irritation persists: Get medical advice/attention.

## **Additional information**

**EUH206:** 'Warning! Do not use together with other products. May release dangerous gases (chlorine)'

**EUH032:** Contact with acids liberates very toxic gas.