ezDent

- Medical-grade water-based disinfectant
- Fast disinfection & sterilization of dental clinics surfaces and tools

www.ezomed.com

ezoDent products feature the following:

- Fast acting against viruses, fungi, bacteria, biofilms and other micro-organisms and pollutants
- Highly effective against a broad spectrum of micro-organisms, including bloodborne pathogens like HIV, HBV (Hepatitis B), HCV (Hepatitis C), as well as Herpes, Poliovirus, Influenza, Mycobacteria, Tuberculosis, E-Coli, Pseudomonas, Staphylococcus, Chlamydia, Enterobacter, Streptococcus, Bacillus, Aspergillus, Candida, …
- Removes soil, blood, body fluids, protein residues, saliva, grease, oils, …
- Non-hazardous, non-toxic, non-corrosive, non-flammable, non-aggressive to metals (does not contain aldehydes) and non-tainting
- Neutral pH
- Strong detergency, thus provides a 2-in-1 activity of cleaning and disinfecting/sterilizing at the same time
- Powerful anti-microbial activity at low ppm

Technical Data:

The Active Material in every ezoDent bottle (Spray or Solution) consists of Cu π-complex Quaternary Ammonium Chlorides. It is active against a broad spectrum of micro-organisms. Time of action is within few seconds.
Patented: Lebanese Patent # 10546 dated February 12, 2015 and International Patent WIPO (World Intellectual Property Organization) – International Bureau, Geneva, Switzerland with International Publication # WO2016/128868 published on August 18, 2016 for International Patent Application # PCT/IB2016/050599 filed on February 5, 2016. International Patent Classification includes: A01N 59/20 (2006.01);A01N 33/12 (2006.01); A01P 1/00 (2006.01).
Storage temperature: 10°C - 50°C (away from direct sunlight).
Shelf life: 3 years.

BROAD SPECTRUM: Means you do not have to buy 3 to 5 types of bottles to be able to disinfect against all sorts of micro-organisms and contaminants.

LOG 9: Means it will kill 99.9999999% of your existing microbial load, that is if you have 10 Million bacteria, you would reach zero, while with a log 5 (99.999% kill) disinfectant, 100 bacteria will remain left.

ULTRA-FAST: Means complete disinfection will begin immediately and will be achieved within less than 1 minute.

BIOFILM: Biofilms being a microbe self-produced matrix of extracellular polymers that covers infected areas and thus protects it from being disinfected by regular disinfectants.

Composition: 2.5% Active Material, 0.03% scent isobornyl acetate in Water (Aqua). Details of Active Material on back cover of brochure.

Recommendations for use: Spray the surface to clean and disinfect, wait for 30 seconds, then wipe with a clean cloth (applies for furniture, benches, walls, floors, etc…), or spray on cloth and wipe the surface to disinfect (to avoid damaging devices or electrical shocks).

Benefits:

- Cedar-green sprayer security lock to prevent unintentional spraying
- Scan/Spray dual trigger action in every stroke: spray less, reach more
- Dual activity: cleaning + disinfecting

ezoDent Spray 500 ml part number: 23020005 (order part number 23020006 for a pack of 12).

Special treatment for the Dental Rinse / Spit Sink: Spray the sink, wait 30 seconds then rinse with water.

5-litre Gallon refill for ezoDent Spray, also available.

ezoDent Refill for ezoDent Spray, 5 litres Gallon part number: 23005003 (order part number 23005004 for a pack of 4).

Composition: 5% Active Material in Water (Aqua). Details of Active Material on back cover of brochure.

Recommendations for preparing the Soaking Solution: 2% of ezoDent Solution in water, or 1 full cap content in every 1 litre of water. 1,000 ml bottle makes 50 litres of soaking solution.

Diluted concentration in soaking tank: 1,000 ppm (0.1%). The prepared diluted solution will remain active for a long period of time (more than one week), however, for a good operation practice, our recommendations for use are advisable.

Recommendations for use as Soaking Solution: Prepare 2 tanks containing the diluted solution: The first tank to be used for Enzymatic cleaning (to be changed once per day, as it becomes soiled) The second tank to be used for disinfecting/cold sterilization (to be replaced every two days). Place your soiled tools and dental handpieces, including Dental Burs (Fraises), K-files and H-files (Hedstrom files), bib holders, mouth mirror and other dental tools in the first tank for 5 minutes, then brush them, rinse, and place in the second tank for another 5 minutes. Remove them and wipe with a dry cloth or rinse and leave to dry.

Benefits:

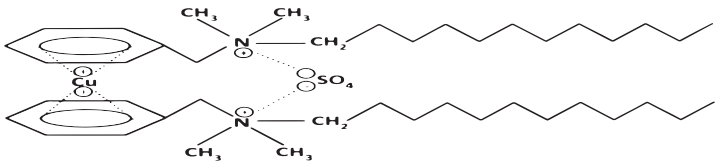
- Can be used for soaking, or for Ultrasonic cleaning prior to autoclaving
- Disinfection and cleaning power increases when used in an Ultrasonic Cleaner
- Dual activity: cleaning + disinfecting.

ezoDent Solution 1,000 ml part number: 23010001 (order part number 23010002 for a pack of 12).

Dental Saliva Ejector Pump disinfection: Disinfect with 1% diluted ezoDent Solution.
Preparing the dilution: 1% of ezoDent Solution in water, or 5ml in every 0.5 litre of water. 1 litre bottle makes 100 litres of disinfection solution or 200 times 0.5 litre solution for Dental Saliva Ejector Pump disinfection. Place your pump head into the 1% diluted Solution and suck 0.5 litre liquid at the lowest suction speed.

5-litre Gallon for ezoDent Solution, also available.

ezoDent Solution, 5 litres Gallon part number: 23005001 (order part number 23005002 for a pack of 4).
Optional item: Pump for 5-litre Gallon (part number 94000001)

Composition / Information on active material		
Active material (s)	**CAS #**	**Percent**
DDBAC (Dodecyl Dimethyl Benzyl Ammonium Chloride) / Copper π-complex 	N/A	50%
Cu π-complex C14, C16 and C18 Quaternary Ammonium Chlorides	N/A	50%

ezoDent is a π-complex of C12 Quaternary Ammonium Chloride (Dodecyl Dimethyl Benzyl Ammonium Chloride), along with π-complex of C14, C16 and C18 Quaternary Ammonium Chlorides, with ion Copper, so it benefits from both worlds (Quaternary Ammonium disinfectant + copper-based antimicrobial) with more synergy and biocidal activity but with less toxicity. The π-Complex increases dramatically the killing power over bacteria, viruses, fungi and other micro-organisms, while reducing the toxicity (vs. humans) of the product at the same time. Even without the Cu π-complex activity, the Quaternary Ammonium Chloride is FDA approved as Safe and Effective as an active for antiseptic drug products (1), and as an active ingredient for oral rinse/mouthwash (2). It exceeded the FDA-indicated minimum performance standards for bacterial reduction (3). It is also FDA approved for eye and nasal drops, leave-on skin antiseptics, hygienic towelettes and wet wipes (4) and FDA recognized as one of the best hand sanitizers (5). It is FDA Food Safety approved for 0.25 to 1 ppm (6) even allowed as a food preservative (7) and benefits from the US EPA food tolerance exemption (8) and is EPA approved to be used as a sanitizer on counter tops, utensils, appliances, tables, … and as an algaecide, … and that its Toxicity database is complete (9). It is strongly recommended as a useful virucidal agent by the NCBI – NLM – NIH USA (10), whereas Health Canada states it as active against bacteria, virus and fungi …to be used in industrial / institutional areas (schools, office buildings), hospitals, dental clinics, nursing homes, food processing and barns (11). Furthermore, EPA does not believe it poses unacceptable reproductive risks, does not believe it is a genetic toxicant, and is found to be negative for introduction of tumors (12).

On the other hand Copper is a natural antimicrobial element which, in very small quantities has the power to control a wide range of molds, fungi, algae and harmful microbes, such as Aspergillus, Bacillus, Candida, Poliovirus, and inactivates bacteria and viruses with a broad spectrum effect on flu (H1N1, H5N1 avian strain, 2009 H1N1 swine flu), as per international journals publications.

(1) for 0.1% – 0.13% w/w as per FDA FR56(140)
(2) for up to 0.1% concentrations as per FDA FR58(27)
(3) 21CFR333.470(b)(2)
(4) FDA FR56(140)
(5) FDA docket No. 75N-183H
(6) FDA FR172.165
(7) Up to 0.004% as per FDA FR172.165
(8) Up to 400 ppm of active Quaternary compound as per EPA-HQ-OPP-2008-0533 – 40CFR180.940
(9) 40CFR180.940
(10) PMID:18032831
(11) Minimum in-use concentrations of up to 450 ppm as per the hard surface disinfectants monograph
(12) 40CFR180.940

Under normal conditions of use, product will not exhibit any hazard to eyes, skin, inhalation or ingestion, will not have any carcinogenicity, embrotoxicity, and will not present any physical hazard.

Your dealer is