

Chlorine Dioxide approved applications for humans

- **Chlorine Dioxide is not Chlorine just as Carbon Dioxide (e.g. breathe) is not Carbon (e.g. coal)**
1. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1569027/pdf/envhper00463-0059.pdf>
 2. Chlorine dioxide is used primarily (>95%) for bleaching of wood pulp, but is also used for the bleaching of flour and for the disinfection of municipal drinking water. The New York water treatment plant first used chlorine dioxide for drinking water treatment in 1944. Chlorine dioxide was introduced as a drinking water disinfectant on a large scale in 1956, when Brussels, Belgium, changed from chlorine to chlorine dioxide. Chlorine dioxide is used in many industrial water treatment applications as a biocide including process water and food processing. Chlorine dioxide is less corrosive than chlorine and superior for the control of Legionella bacteria. Chlorine dioxide is far superior to copper-silver ionization for Legionella control because unlike copper-silver ionization, chlorine dioxide is: 1) an EPA approved biocide, 2) not negatively impacted by pH and 3) does not lose efficacy over time because the bacteria grow resistant to the biocide.
 3. <http://www.foodsafetymagazine.com/magazine-archive1/februarymarch-2005/food-safety-insider-sanitation-solutions/10-reasons-why-you-should-be-using-chlorine-dioxide/>
 4. Mouthwash- <http://www.frontierpharm.com/dioxicare-system.php>
 5. Use of a chemically-stabilized chlorite matrix for the parenteral treatment of HIV infections
US 6086922 A
<https://www.google.com/patents/US6086922>
 6. <http://ext.wsu.edu/foodsantiation/secondary/documents/BHSN/WFPAClO2Overview.pdf>
 7. What is Chlorine Dioxide Mouthwash?
<http://www.wisegEEK.com/what-is-chlorine-dioxide-mouthwash.htm>
 8. <http://www.cdgenvironmental.com/content/why-chlorine-dioxide>

9. <http://www.alnmaq.com/articles/2013/09/myths-and-misconceptions-chlorine-dioxide-gas>



10. Mechanisms of Toxicity of Chlorine Di



Chapter 14 Chlorine Dioxide and Blood Chemistry

To understand why the Miracle Mineral Supplement works one must understand some of the chemistry of chlorine Dioxide and some of the chemistry of blood. Chlorine dioxide is a gas that is dissolved in water when in the body. Chlorine and chlorine dioxide have been used as disinfectants for more than a hundred years and there is little doubt that they simply destroy pathogens of all kinds. Both have been used in water purification systems for more than 50 years. In recent years, in water purification systems chlorine has been used less and chlorine dioxide a great deal more as it has many benefits over chlorine. Chlorine dioxide is used extensively in water purification systems throughout Europe. Although chlorine dioxide is somewhat more expensive than chlorine, its many benefits over chlorine has resulted in it being more extensively used in water purification systems than chlorine. In 1998 The American Chemical Society, Analytical Chemistry Division said chlorine dioxide is the most powerful antimicrobial agent known to man.

Chlorine dioxide kills pathogens by oxidation, a completely different chemical reaction than that of chlorine (chlorination) and oxidation results in no harmful chemicals. A 10-ppm drink of chlorine in juice will cause a healthy person several hours of nausea, while a 10-ppm drink of chlorine dioxide causes no nausea at all for a healthy person, and yet it is more efficient in killing pathogens than chlorine.

None of the functions or elements of the human body including friendly aerobic bacteria are affected by chlorine dioxide in diluted solutions of 50-ppm or less. On the other hand, solutions of 0.1 to 1-ppm seem to induce a spectacular immune response reaction attacking anaerobic bacterium, viruses, parasites, harmful molds, yeasts and other pathogens. Without realizing it, hundreds of

See Chapter 20, page 6 for data on obtaining MMS.

11. <https://www.msu.edu/~brook/publications/aeis/aeis654.htm>
12. <http://www.absa.org/abj/abj/091401LettertoEditor.pdf>
13. http://www2.dupont.com/Chlorine_Dioxide/en_US/assets/downloads/Engineering.pdf
14. <http://www.lenntech.com/processes/disinfection/chemical/disinfectants-chlorine-dioxide.htm>
15. http://www.epa.gov/ogwdw/mdbp/pdf/alter/chapt_4.pdf
- 16.