

66-19 DioxiClear (Project 01-70) (5/02)

For **UPDATE**, [click here](#).

DioxiClear is a chlorine dioxide-based dental unit waterline cleaner marketed for use in units that have a self-contained water system. The product consists of two separate liquid concentrates that are placed in a dental unit's self-contained reservoir and then mixed with tap water. The mixing activates the active ingredients (chlorine dioxide and chlorous acid). For ideal waterline cleaning, the manufacturer recommends that DioxiClear be used in two steps: a twice-monthly flush with high concentrate solution for three minutes, and daily use of low-concentration solution (for continuous use). DioxiClear is supplied in one-gallon sets, including a measuring beaker and graduated cylinder to facilitate proper mixing concentrations.

Manufacturer:

Frontier Pharmaceutical, Inc.
135 Spagnoli Road
Melville, NY 11747
(800) 767-3486
(631) 777-1420
(631) 777-1422 FAX
www.frontierpharm.com

Suggested Retail Price:

\$89.00 One-gallon set

Government Price:

\$60.00 One-gallon set

ADVANTAGES:

- + After treatment, dental unit water met American Dental Association (ADA) recommendations.
- + Easy to mix and use.
- + Protocol is simple to implement.
- + No clogging of waterlines noted.
- + No detrimental effects noted to the dental unit.
- + Minimal amount needed for daily application.
- + Easy to dispense using provided spigot, beaker, and graduated cylinder.
- + No after-taste noted when used continuously at the recommended concentration.

DISADVANTAGES:

- More expensive than using diluted bleach for cleaning waterlines.
- Strong bleach smell when used for twice-monthly flush.
- Product requires mixing.

SUMMARY AND CONCLUSIONS:

DioxiClear is a two-part, chlorine dioxide-based dental unit waterline cleaner. It was rated by DIS clinical users as "Good or Excellent" for its handling properties and clinical acceptability. During the eight-week test period, all tested water samples met the ADA goal for dental treatment water used for nonsurgical procedures. The product requires mixing two liquid concentrates with tap water in the dental unit's separate water bottle. Manufacturer instructions recommend a twice-monthly flush for three minutes using a high concentration solution, and a continuous daily use of a low-concentration solution. Patients did not complain of after-taste when the product was used continuously. The dental staff felt the product was easy to use and required minimal time to implement. Its relatively minor disadvantages were increased cost compared to using diluted bleach for waterline cleaning, a strong bleach smell when using the product for the twice-monthly flush, and the need for mixing before use. **DioxiClear** is rated **Acceptable** for use by the federal dental services.

UPDATE

In February 2003, Frontier Pharmaceutical Inc. informed DIS that the name, price, and protocol for DioxiClear have changed. The product is now known as BioClenz.

For ideal waterline cleaning, the manufacturer recommends that BioClenz be used in two steps: once weekly flush with high concentrate solution for three minutes, and daily use of low concentrate solution (for continuous use). The manufacturer claims a one-gallon set will clean the waterlines in one operatory for two years.

Government Sales:

Don Holton
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(612) 861-4573 FAX
Dkholton02@msn.com

As of May 2003, the following price schedule is now in place:

Suggested Retail Price: \$174.00 for one twin gallon set packaged in pint squeeze bottles with an integrated measuring chamber

Government Price: \$95.00 for one twin gallon set packaged in pint squeeze bottles with an integrated measuring chamber.

[Click here](#) for updated product information.