



Safety Data Sheet

Section 1: Identification

Product Name: MicroCLEAR® Dental Unit Waterline Cleaner

EPA Registration No: 87117-1

CAS Number: 10049-04-4

Product Use: Intended for use in self-contained water systems, to control water quality and kill odor causing bacteria.

Manufacturer/Supplier: Rowpar Pharmaceuticals, Inc.

Address: 16100 N Greenway Hayden Loop, Suite 400, Scottsdale, AZ 85260, USA

General Information: (480) 948-6997 or (800) 643-3337

Transportation Emergency Number: Not Applicable

Section 2: Hazard(s) Identification

GHS Classification:

Health	Environmental	Physical
Acute Toxicity - Category 5 Eye Corrosion - Category 2 Skin Corrosion - Category 3 Skin Sensitization - Category 3 Mutagenicity - None Carcinogenicity - None Reproductive/Developmental – None Target Organ Toxicity (Repeated) – None	Aquatic Toxicity – Category IV	Flammable Liquid - No

GHS Label:

Symbols:	
<p>Hazard Statements</p> <p>No acute or chronic hazards (non-toxic and non-carcinogenic).</p> <p>Product is not intended for ingestion or consumption. Ingestion may cause gastric discomfort, nausea, diarrhea, or vomiting.</p>	<p>Precautionary Statements</p> <p>Product rarely presents a problem when used according to directions. This product is safe for its intended use. As with all consumer products, individuals may have allergic reactions, such as redness, rash and/or swelling.</p> <p>Prolonged exposure may causes moderate eye irritation. Prolonged exposure may cause localized skin irritation or reaction. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.</p> <p>When chlorine dioxide gas is heated to decomposition, chlorine gas is produced. Chlorine gas creates hydrochloric acid when mixed with water or steam. Chlorine dioxide mixed with an acidic composition will result in release of small concentrations of chlorine dioxide gas or vapor, which is a strong oxidizing agent. If the vapor is inhaled, irritation to nose or throat can occur.</p>

Section 3: Composition/Information on Ingredients

Component	CAS Number	Weight %
Chlorine Dioxide	10049-04-4	0.100
(See Section 8 for Exposure Limits)		

Section 4: First-Aid Measures

The procedures in this section are recommended as emergency first aid only. This information is not intended to replace or supplant treatment advice from a health-care professional.

General Advice

If reaction to the product does not subside quickly (within a few minutes), immediately consult physician.

Respiratory/Inhalation:

- Have person sip a glass of water if able to swallow.
- Call poison control center or doctor for further treatment advice.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Skin Contact:

- Take off contaminated clothing.
- Wash effective area thoroughly and immediately with soap and plenty of water for 15 – 20 minutes.
- Call a poison control center or doctor for further treatment advice

Eye Contact:

- Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for further treatment advice

Inhalation:

- Move person to fresh air. Monitor for respiratory distress. If difficulty develops, contact a physician immediately.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

In the event an adverse reaction occurs, please seek immediate medical attention and discontinue use of product. Also, please notify Manufacturer.

Section 5: Fire-Fighting Measures

FLAMMABLE PROPERTIES

Flammable	No
Combustible	No

Flash Point	Not Applicable
Flammable Limits	Not Applicable
Contents under Pressure	No
Extinguishing Media	Not Applicable
Special Fire Procedures	Not a fire hazard
Explosive	No

Section 6: Accidental Release Measures

Spill or Leak Procedure

For minor spills, proceed with routine clean-up with water.

Large spills of product should be collected in a suitable container, and the surface should be cleaned up with water.

- Ventilate area of spill or leak.
- Dike large spills using absorbent or impervious material such as clay or sand.
- Recover and contain as much free liquid as possible to dispose of. Do not reuse.
- After removal, flush contaminated area thoroughly with water.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Section 7: Handling and Storage

Handling

Use product only as directed on product packaging (label). Avoid contact with skin and eyes. Do not ingest.

Product Storage

Store in a cool, dry, dark area in original container. Keep container tightly closed with not in use. Do not store with easily oxidized materials, acids, reducers, and combustible/flammable materials. Do not contaminate water, food, or feed by storage or disposal. Avoid storing at high temperatures or near a heat source. Avoid freezing temperatures.

Container Information

Pressured Container	No
Container Type	High Density Polyethylene (HDPE) Bottle

Section 8: Exposure Controls/Personal Protection

Respiratory Protection	None
Eye/Face Protection	None
Skin Protection	None

Special Storage Required

None

Section 9: Physical and Chemical Properties

Odor	None (odorless)
Color	None (colorless)
General Physical Form	Liquid
Flash Point	Not Applicable
Evaporation Rate	Not Determined
Solubility in Water	Completely Miscible
Boiling Point	Not Determined
Vapor Density	Not Determined
Vapor Pressure	Not Determined
Specific Gravity	1.00 – 1.01 (Room Temperature)
pH	6.4 – 7.0 (Room Temperature)
Melting Point	Not Determined

Section 10: Stability and Reactivity

Chemical Stability Stable

Materials and Conditions to Avoid

Avoid contact with easily oxidized materials, acids, reducers, and combustible/ flammable materials. Keep all chemical and foreign materials away direct contact with the product. Contamination by other chemicals (acids, chlorine compounds, bleach, and combustible/ flammable materials) may cause chemical reactions resulting in generation of chlorine dioxide gas and vapors. Avoid storing in high temperatures and near heat or flames.

Hazardous Reaction and Decomposition Products

Chlorine dioxide is a strong oxidizing agent and can be explosive if not handled properly. Exposure to strong acids or chlorine compounds can produce uncontrolled generation of chlorine dioxide gas.

Special Conditions to Avoid

Avoid storing or exposing product to extreme heat or sun.

Avoid storing or exposing product to freezing temperatures.

Avoid directly exposing product to light (ultraviolet or visible).

Section 11: Toxicological Information

Animal Toxicology, Mutagenicity, Reproductive/Developmental Toxicity

No formal toxicology studies are available for the product. Refer to the following references for toxicological information related to chlorine dioxide and chlorite:

1. Lubbers JR, Bianchine JR. Effects of the acute rising dose administration of chlorine dioxide, chlorate, and chlorite to normal healthy adult male volunteers. *J Environ Pathol Toxicol Oncol.* 1984. Jul;5(4-5):215-28.
2. US Department of Health and Human Services. Toxicological profile of chlorine dioxide and chlorite. 2004. Available at: <http://www.atsdr.cdc.gov/ToxProfiles/tp160.pdf>
3. US Environmental Protection Agency. Toxicological review of chlorine dioxide and chlorite. 2000. Available at: <http://www.epa.gov/iris/toxreviews/0496tr.pdf>

Carcinogenicity

None

Section 12: Ecological Information

Ecotoxicological Information

Not available

Section 13: Disposal Considerations

Container Disposal

Dispose of container through recycling or trash/waste container.

Disposal Procedure

Dispose product in accordance with all applicable local, state and federal regulations.

Small quantities may be flushed to a sewer with copious amounts of water.

Section 14: Transport Information

DOT Classification

Non-flammable toiletries

UN 1903 8 Disinfectants, liquid, corrosive, n.o.s.

Section 15: Regulatory Information

US Federal Regulations

US Environmental Protection Agency (EPA): Product is regulated in accordance with FIFRA sec 3(c)(7)(A).

State Laws

California: Product is not regulated under the provisions of Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986).

Section 16: Other Information

Revision Date: July 09, 2014

Supersedes: June 30, 2011 MSDS Document for MicroCLEAR® Dental Unit Waterline Cleaner

Disclaimer: Information presented herein has been compiled from sources considered by the Manufacturer, in good faith, to be dependable and is accurate and reliable to the best of our knowledge and belief. However, Manufacturer cannot make any warranty or representation respecting the accuracy of completeness of the data and assumes no responsibility for any liability or damages relating thereto or for advising you regarding the protection of your employees, customers or others. Users should make their own tests to determine the applicability of such information or suitability of any products for specific use.

No.	Date	Author, Dept	Change Reference	Reason
1	03/19/2008	-	All sections	Document creation
2	11/03/2009	J. Ward, R&D	All sections	Update information
3	06/29/2011	E. Young, R&D	All sections	Update information and new formatting
4	07/09/2014	E. Garcia, Consultant	All Sections	Update information to comply with SDS format