

# MATERIAL SAFETY DATA SHEET

## PRODUCT IDENTIFICATION

**Product Name:** "ChloraPal"<sup>TM</sup>

**Date:** January 1, 2009

**Product Use:** Product enhances the effectiveness of chlorine on coliform bacteria.

**Formula:** Buffered, organic, slightly acidic, aqueous solution of electrolytes.

**DOT Classification:** Not regulated as a hazardous material by DOT or IMO.

**Manufacturer:** Design Water Technologies  
5920 Covington Road  
Shorewood, MN 55331  
Phone: #952-474-4657

## COMPONENT INFORMATION

COMPONENTS:	AMT. (%)
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The balance of the components are not listed or considered hazardous in 29CFR 1910.1200 or other pertinent sections of OSHA Regulations and comprise proprietary information.

## EMERGENCY RESPONSE INFORMATION

### FIRST AID PROCEDURES:

This product is a mild acid base. May cause eye burns. Immediately flush eyes with water for at least 15 minutes and get medical attention.

May cause skin irritation with prolonged contact. Wash skin surface with mild soap and water.

### FIRE FIGHTING INFORMATION:

Use self-contained breathing apparatus.

As with any acid, contact with metals may produce flammable hydrogen gas.

Use extinguishing media appropriate for surrounding fire.

### SPILL OR LEAK HANDLING INFORMATION:

Personal Protection: Must be appropriate to handle a spill. See Personal Protection Measures Section.

Neutralize spills with "pH Neutralize", lime or soda ash; flush spill area with plenty of water.

Procedures: Keep spectators away. Treat as an acid material. Contain spill with inert material (sand, earth, absorbable material). Transfer diking material to suitable container for recovery or disposal. Material may be diluted and rinsed down a sanitary sewer system to a municipal wastewater plant. If quantities in excess of 500 gallons are rinsed to a sewer, the district should be notified of possible pH upset to the plant.

## HAZARD INFORMATION

### HEALTH EFFECTS:

The formulation is only mildly corrosive to skin and eyes and is not known to be a skin sensitizer. Toxic effects described in animals from exposure by inhalation or ingestion include corrosion of mucosal surfaces, kidney effects, liver effects, and increased oxylate production. Tests of individual constituents in bacterial or mammalian cell cultures gave no mutagenic activity.

Human health effects of overexposure by skin or eye contact may initially include: skin irritation with some discomfort or rash, or eye irritation with discomfort, tearing, or blurring of vision. Higher exposures may lead to these effects: skin burns or ulceration, or eye corrosion with corneal or conjunctival ulceration.

Human health effects of over exposure by inhalation may include irritation or corrosion of mucous membranes with upper and lower respirator irritation. Human health effects of overexposure by ingestion may include corrosion of mucous membranes with stomach discomfort, nausea, and prostration. Significant skin permeation after contact appears unlikely. There are no reports of human sensitization.

### REACTIVITY INFORMATION:

Stability: Stable [ X ] Unstable [ ]

Incompatibility: metals, oxidizing agents such as nitric acid, cyanide, sulfides.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization will not occur.

## ACCIDENT PREVENTION INFORMATION

### PERSONAL PROTECTION MEASURES:

Eye Protection: Wear chemical splash goggles (ANSI Z871) or approved equivalent.

Hand Protection: Wear neoprene gloves or approved chemical protective gloves suitable for use with acids.

### FACILITY CONTROL MEASURES:

Ventilation: Keep in well ventilated areas. Keep package tightly closed. Store above 32 degrees F. (0 degrees C)

Storage: Product should not be stored with or near strong caustic or oxidizing agents.

Other Protective Equipment: Eye wash facility should be present where product is stored or utilized.

## SUPPLEMENTAL INFORMATION

### PHYSICAL PROPERTIES:

Appearance: Clear Color: Slightly Yellow

State: Liquid Solubility in Water: Complete

Vapor Pressure: Vapor is water Vapor Density: 1.0, vapor is water.

Evaporation Rate: N/A Specific Gravity: 1.125

Boiling Point: 243 degrees F Freezing Point: 32 degrees F (clouding)

pH: 2.3.

### WASTE DISPOSAL:

Comply with Federal, State, and Local regulations. If approved, may be neutralized and flushed to wastewater treatment plant.

## REGULATORY INFORMATION

Certified since April 1, 2000 under ANSI/NSF Standard 60, which covers the health effects of water treatment chemicals.

### **DOT Proper Shipping:**

Not regulated as a hazardous material by the US Dept. of Transportation (DOT) 49CFR 172.101 Hazardous Material Table.

### **RCRA Status:**

Not a hazardous waste under RCRA, 40CFR 261. No reportable quantities.

### **SARA/TITLE III-CERCLA List:**

This product does not contain a "CERCLA" listed hazardous substance for emergency release notification under Sec. 304 (40CFR 302).

### **SARA/TITLE III-Toxic Chemicals List:**

This product does not contain a toxic chemical for routine annual "toxic chemical release reporting" under Sec. 313 (40CFR 372).

### **TSCA Inventory Status:**

Chemical components are listed on TSCA inventory.

### **California Proposition 65:**

This product does not contain any chemicals currently on the California list of known carcinogens and reproductive toxins.

Design Water Technologies supplies this data sheet for your information, consideration, and investigation. The information and recommendations contained have been compiled from sources believed to be reliable. No warranty, guarantee, or representation is made by DWT as to the absolute correctness or efficiency of any representation contained in this and other MSDS nor assumes any responsibility in connection; nor can it be assumed that all acceptable safety measures are contained in this and other MSDS, or that other or additional measures may not be required under particular or exceptional conditions/circumstances. You should satisfy yourself that you have all current data relevant to your particular use.