



3R Odor-Con/Purogene Sales ♦ 1980 Palomino Trail ♦ McPherson, KS ♦ 67460  
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a division of Palomino Mfg

## 3R PUROGENE PUTS THE 'FRESH' BACK INTO WATER

### For RV and Marine Water Systems

**3R PUROGENE** is a 2% solution of stabilized chlorine dioxide,  $\text{ClO}_2$  (contains no free chlorine). Chlorine dioxide is recognized safe for drinking water treatment for more than 50 years. It is *EPA* registered for use in drinking water.

Unlike some water treatments that take hours to work and leave a bad after-taste, **3R PUROGENE** makes water fresh the moment it enters the container, from a drinking glass to a plastic, metal, or fiberglass storage tank. **3R PUROGENE** is non-toxic and biodegradable, presenting no harm to the environment or the user.

One ounce of **3R PUROGENE** will purify thirty (30) gallons of drinking water, as well as control the build-up of slime and odor-causing bacteria in any drinking water system in RV units, campers, trailers, and boats.

Water treatment to control build-up of slime and odor-causing bacteria and enhance the taste of stored drinking water. Drinking water should be treated at a rate of 1 fl oz (2 tablespoons) of **3R PUROGENE** per 30 gallons of water (5 ppm  $\text{ClO}_2$  concentration). This treatment will provide bacteria growth control, fresh taste and odor control to the water. Treat each new addition of drinking water to the fresh water tank at the ratio of 1 fl oz (2 tablespoons) of **3R PUROGENE** per 30 gallons of drinking water. Treat as often as necessary to maintain fresh taste and odor control.

Disinfecting the drinking water system (50 ppm  $\text{ClO}_2$  concentration): Place 1/3 fl oz (2 teaspoons) of **3R PUROGENE** per gallon of water tank capacity (example: 30 gallon tank x 1/3 = 10 fl oz of **3R PUROGENE**) into a clean plastic or glass container. To this add 1/2 tsp of Citric Acid Activator Crystals (lemon juice may be used, same amount) per **ounce** of Purogene (4 ounces citric acid/quart Purogene) and let it stand for 5 minutes. DO NOT breathe the fumes! Pour the sanitizing solution into the water tank and fill the tank with potable water. Turn on the water pump and drain a small amount of water from each of the faucets including hot water faucets so that the sanitizing solution gets into the entire system. Then refill the tank with potable water to replace drawn off solution. Let the system full of sanitizing solution stand for at least 1 hour. After the hour, drain the tank and refill with potable water treated with 5 ppm of  $\text{ClO}_2$  as described above. Draw off some water from all faucets including the water heater tank to purge the sanitizing solution. To maintain the tank, repeat this procedure as often as necessary.

Note: Citric acid crystals are added at the rate of 4 ounces per quart of Purogene.  
Example: 100 gallon tank = 32 ounces of Purogene + 4 ounces of Citric Acid Crystals  
1 tablespoon = 3 teaspoons, 1 ounce = 2 tablespoons

**CAUTION: 3R PUROGENE SHOULD BE STORED IN A COOL, DARK PLACE**

## LONG TERM STORAGE OF WATER WITH 3R PUROGENE

**Containers:** Water containers must be free of oil, detergent, ammonia, and organic contaminants. Do not use steel containers with exposed metal which will come in contact with the stored water. Steel drums must be plastic lined.

**Water:** The water to be stored must be potable (safe to drink). Low mineral content is preferred (reverse osmosis or distilled). Water should be bacteria free and free of organic materials.

1. Put 1 ounce (2 tablespoons) of Purogene for each 30 gallons of container capacity into the container. Fill the container with potable water and seal it air tight.
2. Store the container out of sunlight and in as cool a place as possible. Containers that are not completely opaque and are stored in a location that might be exposed to even a small amount of sunlight must be covered with a completely opaque cover (such as heavy gauge black plastic). Exposure to sunlight will deteriorate the Purogene and render it ineffective in microbial control.

## CHECK AND RETREATMENT

The  $\text{ClO}_2$  concentration in the stored water must be checked at least once a year. For containers that are stored at high temperatures or may have been exposed to sunlight (semi-opaque or non-opaque) the water should be checked more frequently.

1. Using a  $\text{ClO}_2$  (Chlorine Dioxide, the active ingredient in Purogene) test kit or test strips, check the stored water for  $\text{ClO}_2$  concentration. If the  $\text{ClO}_2$  concentration is .5 PPM (1/2 Part Per Million) or less, retreat the water with Purogene at the rate of 1 ounce (2 tablespoons) per 30 gallons.
2. Check for clarity and odor. If water is cloudy or odor is objectionable, it is recommended to discard the water. Containers should then be cleaned and disinfected in accordance with the "Disinfecting the drinking water system" on the other side of this document before using again for storing water.