# 3R PUROGENE

## PUTS THE 'FRESH' BACK INTO WATER

**For RV and Marine Water Systems — and Long-Term Water Storage**

**3R PUROGENE** is a 2% solution of stabilized chlorine dioxide, $ClO_2$ (contains no free chlorine). Chlorine dioxide has been recognized as safe for drinking water treatment for more than 50 years, and **3R PUROGENE 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. It is **non-toxic and biodegradable**, presenting no harm to the environment or the user.

## WHY PUROGENE

- **EPA registered** for use in drinking water.
- **Works instantly** — fresh water the moment it enters the container. No waiting hours, no bad after-taste.
- **No free chlorine** — a 2% solution of stabilized chlorine dioxide, $ClO_2$.
- **Controls slime and odor** — one ounce purifies 30 gallons of drinking water and controls the build-up of slime and odor-causing bacteria in the system.
- **Made for RV and marine** — drinking water systems in RV units, campers, trailers, and boats.
- **Non-toxic and biodegradable** — no harm to the environment or the user.

### EASY DOSING — 1 OUNCE TREATS 30 GALLONS

1 fl oz (2 tablespoons) of 3R Purogene per 30 gallons of water (5 ppm $ClO_2$ concentration) for bacteria growth control, fresh taste, and odor control.

## DIRECTIONS — TREATING DRINKING WATER (5 ppm)

Treat stored drinking water at a rate of **1 fl oz (2 tablespoons) of 3R Purogene per 30 gallons of water** (5 ppm $ClO_2$ concentration). This treatment provides bacteria growth control, fresh taste, and odor control. **Treat each new addition** of drinking water to the fresh water tank at the same ratio, and treat as often as necessary to maintain fresh taste and odor control.

## DIRECTIONS — DISINFECTING THE DRINKING WATER SYSTEM (50 ppm)

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** per **ounce** of Purogene — Lemi-Shine dishwasher booster may also be used, same amount (4 ounces citric acid per quart of Purogene) — and let it stand for 5 minutes.

**DO NOT breathe the fumes while the sanitizing solution is activating.**

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 the hot water faucets, so the sanitizing solution gets into the entire system. Then refill the tank with potable water to replace the 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 $ClO_2$ 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.

## 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 that 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 where they 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 $ClO_2$ concentration in the stored water must be **checked at least once a year**. For containers stored at high temperatures, or that may have been exposed to sunlight (semi-opaque or non-opaque), check the water more frequently.

**1.** Using an Oxystix™ test strip or test kit specified for Purogene — standard chlorine dioxide test strips and kits will **NOT** work for Purogene — check the stored water for available $ClO_2$ concentration. If the $ClO_2$ 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 the water is cloudy or the odor is objectionable, it is recommended to discard the water. Containers should then be cleaned and disinfected in accordance with “Disinfecting the drinking water system” above before being used again for storing water.

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