



# Purogene®

P R E M I U M - B L E N D  
C H L O R I N E D I O X I D E

www.aerosafe.com

## PRODUCT OVERVIEW

Since its introduction in 1971, Purogene has been recognized internationally as the premium disinfectant in airline water storage systems. Its low toxicity and high efficacy against pathogenic bacteria makes it the most versatile disinfectant in the water treatment industry.

With increased consumer and regulatory focus on water quality, Bio-Cide has developed The Purogene Airline Sanitation System (PASS) to easily and safely provide disinfection, water treatment

## BENEFITS



- Ultra high antimicrobial activity
- Low corrosive potential at use concentrations
- Doesn't chlorinate
- Uniquely effective at removing and controlling biofilm
- Extends the life of on-board water heating and coffee making equipment
- Excellent deodorant
- Maintains lavatory systems free of sludge and organic build-up

## CONCENTRATE PROPERTIES

Concentration: 2.00 - 2.10% available chlorine dioxide  
 Appearance: Colorless liquid  
 Odor: Very faint chlorinous odor  
 pH concentrate: of 8.2-8.5  
 Boiling point: 213 °F (100.5 °C)  
 Melting point: N/A  
 Freezing point: 28.9 °F (-1.72 °C)  
 Vapor pressure: 23.7 mm Hg (25 °C)  
 Vapor density: 0.02 kg/m<sup>3</sup>  
 Specific gravity: 1.03 g/ml (20 °C)  
 Volatiles (by volume): 97% (Water)  
 Solubility in water: Complete  
 Evaporation rate: Comparable to water  
 Very low acute toxicity (EPA Cat. III)  
 Non-flammable, non-explosive, stable solution  
 NFPA Rating: Fire: 0 Health: 1 - Reactivity: 1 - Special: None



# PASS SYSTEM

This system provides hands-free activation and dosing of Purogene. Three configurations of the PASS system are available:

1. Potable Water Treatment - This unit combines Purogene and activator at the appropriate ratio for potable water treatment (5 ppm).
2. Water Tank Disinfection - This unit combines Purogene and activator at the appropriate ratio for water tank disinfection (50 - 100 ppm).

## MANUAL USE INSTRUCTIONS

### Water Tank Disinfection

1. Drain water storage tank.
2. Inspect tank for foreign materials and sediment.
3. Clean out and flush tank with clean potable water.
4. For each 50 gallons of disinfection solution, mix the following:
  - 16 fluid ounces of Purogene
  - 2 ounces of citric acid
  - mix and allow 5 minutes for activation to occur
  - dilute activated concentrate with two gallons of clean potable water.
5. Fill aircraft water tank.
6. Open all water discharge ports for a short time to allow the treatment solution to reach and flow through these ports.
7. Close ports and allow treatment solution to stand for one hour.
8. Drain solution from tank. *Do not flush tank.*
9. Re-fill tank with potable water treated with 5 ppm Purogene.

## CALCULATION CHART

PACKAGING	PUROGENE	CITRIC ACID	VOLUME TREATED	CLO2 PPM
1 QUART	32 OZ.	4 OZ.	50 GALLONS	100 PPM
1 GALLON	128 OZ.	16 OZ.	200 GALLONS	100 PPM
12 QUART CASE	3 GALLONS	48 OZ.	600 GALLONS	100 PPM
4 GALLON CASE	4 GALLONS	64 OZ.	800 GALLONS	100 PPM
5 GALLON PAIL	5 GALLONS	80 OZ.	1000 GALLONS	100 PPM

When ordering Purogene, it is necessary to order the following amount of citric acid activator:

QUART CASE	REQUIRES 48 OZ. OF ACTIVATOR
GALLON CASE	REQUIRES 64 OZ. OF ACTIVATOR
5 GALLON PAIL	REQUIRES 80 OZ. OF ACTIVATOR

Distributed by:



P.O. Box 4755 Marietta, GA 30061

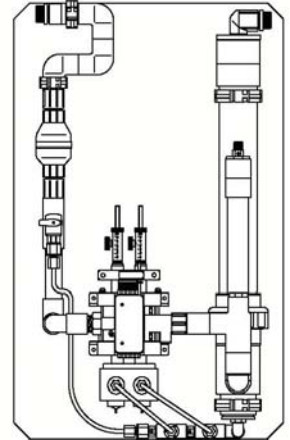
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Website: [www.aerosafe.com](http://www.aerosafe.com) Email: [sales@aerosafe.com](mailto:sales@aerosafe.com)

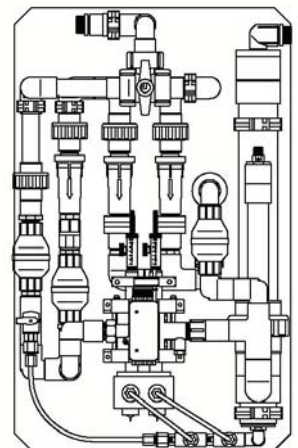
# PASS

Purogene<sup>®</sup>  
Airline Sanitation System  
Standard Concentration



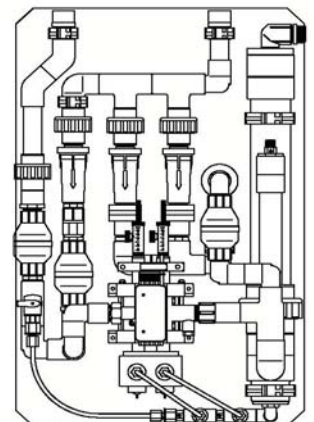
Designed for standard sanitation applications requiring concentrations between 10 - 150 ppm

**Dual Concentration**  
with internal valve



Designed for water treatment type applications requiring concentrations between 2-20 ppm

**Dual Concentration**  
with external valve



Designed to allow switching from high concentrations between 10 - 150 ppm to low concentrations between 2 - 20 ppm with a turn of a single valve

AVAILABLE IN QUARTS, GALLONS AND PAILS