

# Perasan<sup>®</sup> A & BioSide HS-15

EQUILIBRIUM PERACETIC ACID SOLUTIONS

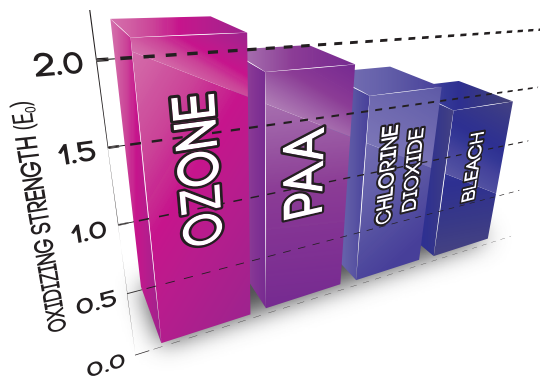


Peracetic acid is an EPA registered biocide for the control of slime and bio-fouling in:

- Cooling Towers
- Evaporative Condensers
- Closed loop systems
- RO Pretreatment
- Agricultural or Irrigation Water Systems
- Ornamental Water Features

## ADVANTAGES

- Broad spectrum oxidizing biocide
- No halogenated by-products or THM's
- Unaffected by ammonia or many other nitrogen-based chemistries
- Compatible with common organic scale and corrosion inhibitors
- Optimum performance below pH 8.6, but effective up to pH 9.5
- Lowers alkalinity to allow higher cycles of concentration than hypochlorite
- Safe for discharge to land or for surface irrigation
- Does not contribute conductivity or TDS
- Effective against algae and slime as low as 1-2 ppm
- Biodegradable and organic
- Multiple analysis / monitoring options available
- Second only to ozone in oxidizing strength



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**ENVIROTECH**

## COMPARISON WITH SODIUM HYPOCHLORITE BLEACH

	Peracetic Acid	NaOCl
Efficacy @ pH>8, or w/ NH <sub>3</sub>	High	Low
Degraded by UV	Slight	T <sub>1/2</sub> =45 mins
Contributes Na <sup>+</sup> /EC	No	1.8 lb NaCl/gallon
Shelf-Life	>1 year	Weeks
Aquatic Toxicity	Low	High

## PHYSICAL PROPERTIES

	BioSide HS-15	Perasan A
Peracetic Acid (% wt)	14.8-15.7	5.5-5.9
H <sub>2</sub> O <sub>2</sub> (% wt)	21.5-22.5	26.5-27.5
Acetic Acid (% wt)	15-16	7-8
Density 20°C (68°F) (g/mL)	1.14	1.12
Vapor Pressure 20°C (68°F) (mbar)	27	27
pH 10% solution	1.8	1.8
pH 1% solution	2.8	2.8
Flash Point °C (°F) DIN	>98 (207)	>98 (207)
Freezing Point °C (°F)	-5 (23)	-5 (23)

## HANDLING AND STORAGE

Store product in original container, in an upright position. The storage area should be well ventilated and shaded from sunlight as well as protected from sources of radiant heat. Contamination of the product, especially heavy metal ions and alkali, must be avoided. Do not store near reducing agents, fuels, organic material, or other non-compatible materials. Avoid temperatures above 86° F. Use first in, first out storage management. Containers must be vented.

Shelf life is at least one year without notable loss of active oxygen if stored properly.

## SHIPPING AND TRANSPORT

Peracetic acid products are available in pack sizes of 5, 15, 30, 55, and 300 gallons. Perasan A is shipped as:

Hydrogen Peroxide and Peroxyacetic Acid Solution, stabilized, 5.1, (8), UN3149, PG.II

BioSide HS-15 is shipped as:

Organic Peroxide Type F, Liquid (Peroxyacetic Acid), 5.2 (8) , UN3109, PG II