

# X-PO<sup>®</sup> pH-DOWN

## VE XO<sup>™</sup> X-PO<sup>®</sup> pH-Down Borate Buffer for Lowering pH

- **X-PO<sup>®</sup> pH-Down** contains TriHydrogen Borate to safely REDUCE elevated system pH, this helps protect ferrous and non-ferrous metals in fully or semi-closed loop systems from accelerated corrosion due to high pH.
- **X-PO<sup>®</sup> pH-Down** TriHydrogen Borate component will act as a pH-buffering agent (4.7% in water yields 4+/-) reducing elevated alkaline pH values allowing the system to maintain pH over the longer term.
- **X-PO<sup>®</sup> pH-Down** can be used to lower elevated alkaline system pH of all types of antifreeze or heat transfer fluids used in hydronic heating and cooling systems.
- **X-PO<sup>®</sup> pH-Down** is also safe to use in Aluminum systems as well to reduce operating pH below the 8.5 level.
- **X-PO<sup>®</sup> pH-Down** is a concentrated product and is economical to use.
- **X-PO<sup>®</sup> pH-Down** TriHydrogen Borate may help retard formation of microbial activity by creating an environment where microorganisms do not like to flourish.
- All closed systems may well require to be treated intermittently with direct microbial control agents.

### Application Rate and Control Parameters

- **X-PO<sup>®</sup> pH-Down** starting point application rate is approximately 1.0# per 1000 gallons of system water or 120 ppm of product.
- System pH should be checked so that any excessive alkaline pH's are neutralized, and system pH is properly maintained.
- It is advisable to intermittently apply to all closed loop systems microbial control agents and then to monitor the total bacterial activity using dip slides or similar testing. Only non-oxidizing microbiocides should be applied with **X-PO<sup>®</sup> pH-Down** Chlorine/Bromine or other oxidizing microbiocides should only be applied to Nitrite containing systems as a last resort and under constant supervision and monitoring. Hazardous interaction and reaction of Nitrites if present can occur when other oxidizing and/or reducing agents are used. Consult your technical representative for specific microbial control treatment recommendation.

#### General Control Test Methods

pH measurement

Refer to the SDS for further health, safety and environmental information regarding this product. Information and recommendations in this bulletin are based on information believed to be reliable. However, the use of the product is beyond our control, and no guarantee, expressed or implied, is made as to the effects of such the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from misuse of the product as such, or in combination with other materials.

GHS  
CODE



HMIS  
CODE



#### Physical Properties

**Form:** Granular  
**Odor:** Characteristic  
**Pounds/Gallon:** N/A  
**Freeze Point:** N/A  
**Color:** Whitish  
**pH:** 1% = <7  
**Specific Gravity:** N/A  
**Freeze/Thaw:** N/A