

# Phix I®

## Technical Data Sheet

Phix I® is the only synthetic acid with similar reactive properties as 50% sulfuric acid with none of the harmful side effects. Phix I® is non regulated by US DOT, Canadian TGD, non-fuming and will not corrode or rust most metals. Phix I® is OSHA and EPA compliant and carries a triple zero hazardous materials index score. Phix I® is 100% biodegradable in 10 days or less, and approved for direct release.

Phix I® will not release any dangerous fumes and has been proven to pose no inhalation risk. Phix I® exceeds all US DOT corrosion requirements. Phix I® can be added to your water or become part of a self-monitoring application system you may currently use. Phix I® will easily neutralize any high pH base fluid, while emitting much lower exothermic reaction properties.

### FEATURES AND BENEFITS:

- Effectively lowers and balances pH
- Requires no secondary containment
- Non-mutagenic
- Outperforms conventional sulfuric acid
- No disposal restrictions
- 100% acid free • non-corrosive on most metals
- FDA approved GRAS
- Non-DOT regulated • non skin irritant
- 100% readily biodegradable
- Excellent for equipment cleaning, and scale removal pH adjustment
- Safely lowers pH in processed fluids

### TYPICAL PHYSICAL PROPERTIES:

Appearance and Color	Clear
Initial Freeze Point	-16°F (-26.7°C)
Odor	Mild Soapy Odor
Solubility in Water	100%
Flashpoint	None
Specific Gravity	1.17 ± .04

### DIRECTIONS FOR USE:

Phix I® is a functional replacement for all sulfuric acid systems and can be used to maintain pH levels in any fluid system. Add to fluid or water to lower pH as needed.

### STORAGE AND HANDLING:

Phix I® has a storage life of better than one year. Keep container closed when not in use. As with all chemical products and materials, take care as to where you store them. Safety glasses are suggested for use when handling this product. No special gloves or protective equipment are required when handling this product.

When pumping this product, it is strongly recommended to use manufacturer approved hose couplings or fittings. DO NOT USE ALUMINUM FITTINGS OR PIPING, 316 Stainless Steel, polypropylene, polyethylene are recommended.

### PACKAGING:

Phix I® is shipped in 275g totes or bulk tanker trucks from the manufacturing facility. Smaller packaging quantities are available upon request.

*Recommendations given in this data sheet are based on tests believed to be reliable. However, the use of the information is beyond the control of Heartland Energy Group, Ltd., and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.*