

PHOSPHORIC ACID

Merchant Grade

0-52-0

GUARANTEED ANALYSIS:

Available Phosphate (P₂O₅) 52.00%
 Derived from Phosphoric Acid.

This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986, requires notification of potential exposure to substances identified by the State of California as causing cancer, birth defects or other reproductive harm.
 Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.regulatory-info-jr.com>

PHYSICAL CHARACTERISTICS

Total P ₂ O ₅	52.00%
Potash (K ₂ O).....	0.01%
Sulfate (SO ₄).....	2.70%
Calcium (CaO).....	0.07%
Aluminum (Al ₂ O ₃).....	1.20%
Iron (Fe ₂ O ₃).....	0.75%
Magnesium (MgO).....	0.75%
Specific Gravity @ 75°F	1.695
Weight (lbs./gal.) @ 75°F	14.14
P ₂ O ₅ per gallon (lbs.) @ 75°F.....	7.49
Gallons per ton @ 75°F.....	142.9
P ₂ O ₅ per ton (lbs.) @ 75°F.....	1060.0
Viscosity @ 75°F (CPS).....	80.0
Viscosity @ 100°F (CPS).....	45.0
Viscosity @ 150°F (CPS).....	19.0
pH	1.0

CONSTRUCTION OF STORAGE & TRANSFER EQUIPMENT

1. Tanks and vessels must be rubber lined or constructed of stainless steel or fiberglass-reinforced polyester. Mild steels, aluminum and many non-stainless alloys are not satisfactory materials of construction. Stainless steel must be at least 316L for most phosphoric acid service.
2. Pumps, piping, valves, etc. should be 316L or alloy 20 stainless steel.

COMPATIBILITY

1. Phosphoric Acid is compatible with most other fertilizer materials. Direct mixing with anhydrous ammonia, aqua ammonia, or other strongly basic materials should be avoided except under controlled conditions in proper vessels, containers, etc. Do not mix with materials containing nitrates, such as UAN-32.

USES

1. Phosphoric Acid is effective in correcting phosphate deficiencies in all crops and soils that need phosphate.
2. Phosphoric Acid can be used for direct application in preplant plow-down or injected into the soil or in irrigation water.
3. Phosphoric Acid can be used as an anti-crushing agent on soils that tend to crust and reduce seedling stands. Common application rates of 180 to 200 lbs. of Phosphoric Acid (13-15 gallons) is diluted with water and sprayed in a three or four inch wide band on the soil surface, directly over the seed area. In addition to serving as an anti-crusting agent, it also provides a starter fertilizer for the germinating seedlings.
4. For specific crop recommendations, see your local distributor.

ADVANTAGES

1. Water soluble Phosphoric Acid is 100% water soluble—highly available to plants when applied to the soil.
2. Uniform application—Phosphoric Acid in the liquid form, sprayed on the soil assures a more uniform application to the field.

SAFETY

Phosphoric Acid—Proper DOT shipping description: RQ Phosphoric Acid, 8, UN1805, P.G. III. Phosphoric Acid is required to be labeled with a warning label. Avoid contact with skin and eyes. It causes irritation. Rubber clothing, chemical gloves, footwear, splash proof goggles and chemical hat or hood is suggested for handling. In case of contact, flush with water for at least 15 minutes and seek medical attention. Non-flammable. Caution must be used when welding—danger of hydrogen gas explosion.