

FOREWORD

Perhaps the one question most frequently asked us about CALPHOS™ is, "since it isn't soluble, then how is it available to the plant?" The answer lies in the wondrous way in which plants feed.

In this age of the atom, it should not be hard for us to visualize our soil as matter made up of millions upon millions of atoms of different elements such as phosphorus, calcium, magnesium, potassium, etc. Thus, we can speak and think as do the scientists, of atoms of plant food, just as we do of pounds of plant food. The only difference is in quantity and particle size.

An atom which bears an electrical charge, either positive or negative, is called an ion. The swapping, or exchanging, between the soil and the plant root, of ions of plant food in the soil for ions of hydrogen (acid) given off by the plant's root, is called ionic exchange and it is through this exchange that insoluble elements, such as the phosphorus in CALPHOS™, are made available as food to plants.

"A plant food in colloidal state appears most active and efficient and seems to have remarkable powers," says Milton Whitney, Chief of Bureau of Soils, U.S. Department of Agriculture. Elements in a compound colloid are non-poisonous and non-toxic and will not harm the bacteria in the soil.

Since these elements are absorbed by the soil in insoluble form, regardless of what form they were in when applied, solubility of the nutrient doesn't enter into the process.

Therefore, to be available to the plant, an element need not be soluble, but contrary is due to the widespread use of the word "available" for "soluble" when referring to that percentage of a plant nutrient that is soluble. The amount of soluble P₂O₅ in CALPHOS™ is by no means a fair measure of its total worth, since all of its P₂O₅ is available, in the sense of being useable by the plant.

NOTICE TO BUYER LIMITATION OF WARRANTY

Canton Mills, Inc. recommends that a soil test be used as basis for determining which fertilizer ingredients are needed for your soil. This or any other fertilizer is only a portion of the total farm practice needed to raise a good crop. ADDITIONAL NITROGEN OR OTHER NUTRIENTS MAY BE NEEDED DURING THE GROWING SEASON BASED ON MANAGEMENT PRACTICES, CROP RESEARCH, WEATHER CONDITIONS AND GENERALLY ACCEPTED PRACTICES WITHIN YOUR INDUSTRY. FOR FURTHER INFORMATION ON NUTRIENT GUIDELINES, SOME SOURCES OF INFORMATION INCLUDE YOUR LOCAL EXTENSION SERVICE, STATE DEPARTMENT OF AGRICULTURE, SUSTAINABLE AGRICULTURE DIVISION, OR ORGANIC CERTIFICATION ORGANIZATION.

It is expressly understood that technical advice will not be furnished by Canton Mills, Inc. and that Canton Mills, Inc. recommends that such advice be obtained from qualified soil or agronomy experts.

No salesperson or soil consultant is authorized to make any warranties expressed or implied concerning the performance of these products or yields expected with their use.

Canton Mills, Inc., Fertilizer by Shur-Gro™ - warrants that the fertilizer or other products sold by it conforms to the descriptions on the label within tolerances established by law. THIS EXPRESSED WARRANTY EXCLUDES AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE HEREBY EXPRESSLY DISCLAIMED.

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By acceptance of the fertilizer or other products the Buyer acknowledges that the limitations and disclaimers herein set forth are conditions of the sale and constitute the entire agreement between the parties regarding warranty or other liabilities and the remedy thereof.

Rev. 07/15

The World's ONLY Natural Granulated Soft Phosphate

CALPHOS™

Canton Mills, Inc. • P.O. Box 97 • Minnesota City, MN 55959 • 1-800-328-5349

WHAT DOES CALPHOS™ CONTAIN?

CALPHOS™ is guaranteed to contain a minimum of 3% available (and a minimum of 18% total)* phosphoric acid (P₂O₅). CALPHOS™ has a minimum of 18% Calcium (Ca).

Because the calcium is in oxide form, the soil pH will not affect the performance of CALPHOS™.

ARE DIFFERENT GRADES AVAILABLE?

CALPHOS™ is produced in two grades:

GRANULAR CALPHOS™ has been finely ground and processed through the modern granulating plant. Only natural materials are used to form the world's only granular soft phosphate product.

STANDARD CALPHOS™ is the original product that has been produced since the 1940's. It is a finely ground product with the consistency of fine lime. 80% will wash through a 200 mesh screen.

Both grades are available in bulk and bags.

WHAT IT DOES.

By offering growing plants a constant, non-leachable source of phosphorus and calcium that is capable of absorbing its own weight in moisture, CALPHOS™ spells lush and greener growth. CALPHOS™ also stimulates strong root formation, hastens crop maturity and encourages earthworms and soil bacteria. Since phosphorus is lacking in most soils, additional applications are a must for maximum results.

WHAT USES DOES CALPHOS™ HAVE?

CALPHOS™ is a valuable tool for use when soil testing shows deficiencies of calcium and phosphate. GRANULAR CALPHOS™ can be applied directly using any conventional fertilizer spreader. STANDARD CALPHOS™ can be spread using drop spreaders.

A SCIENTIST LOOKS AT CALPHOS™

The late L.G. Willis of Wilmington, NC one of the outstanding soil chemists of his time, made the following observation about colloidal phosphate (CALPHOS™).

"Long experience with colloidal phosphate as a fertilizer leaves a very strong impression that something in the material besides the phosphate and the calcium that goes with it is beneficial to crops. Some impurity, some unidentified elements in the phosphate, may be responsible. Any attempt to name these would be a guess. The material is good enough in itself so that no explanations are needed to show its value. It has helped produce crops over a wide area of the United States and can stand on its own merit."

Calphos™



Use Nature's Own

Calphos™

An Untreated, Soft, Phosphatic Clay
Containing 3% Available P₂O₅
(18% Total P₂O₅)*
18% Calcium (Ca)
Weight = 70# per cu. ft. (Granular)
80# per cu. ft. (Standard)

FAST ACTING

LONG LASTING

ODORLESS

NON ACID FORMING

WILL NOT BURN

WILL NOT HARDEN

*The state of Wisconsin does not allow a guarantee for total phosphate.

HOW DOES CALPHOS™ COMPARE WITH OTHER PHOSPHATES, SUCH AS SUPERPHOSPHATE OR ROCK PHOSPHATE?

Because of its natural fineness, CALPHOS™ is quick acting, like superphosphate. Because it is relatively insoluble, and therefore not subject to leaching, it is long lasting, like rock phosphate. Thus CALPHOS™ is both long lasting and quick acting. Since CALPHOS™ is not acidulated and relatively insoluble it is not subject to reversion as are superphosphates. (At times these can have up to 80% reversion of the soluble phosphate into insoluble forms). CALPHOS™ also is not subjected to needing an acid soil pH as is hard rock phosphate for availability, thus making it more water soluble under varying conditions.

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