PHOSCARE™

0-28-25
Nutrients for Soil and Foliar application

Guaranteed Analysis:

Total Product: Basis %	w/v
Total Nitrogen (N)	0.0
Total Phosphorous (P)	28.0
Total Potassium (K)	25.0

Phosphorous and Potassium present as mono and dipotassium phosphite

GENERAL INFORMATION

Phosphorus is one of the most difficult nutrients to supply to plants, particularly through the soil because most soils have phosphorus fixation characteristics. To compensate for the inefficiency of phosphorus utilisation by plants it is necessary to apply **Phoscare™** to the plants as it is an immediate systemic form of Phosphorous which the plant recognises and utilises quickly. Technologies which can improve the efficiency of phosphorus can greatly reduce the quantities of phosphorus application, helping growers save time and money.

Phosphorous supplementation through the use of **Phoscare™** is most required by crops under the following conditions:

- Growth in cold weather
- Limited root growth
- Fast top growth
- Waterlogged conditions

Phoscare™ is a product produced using new technologies which are different from the traditional phosphorus fertiliser technologies. Phosphorous acid instead of phosphoric acid is used as the phosphorus source. The product derived from using Phosphorous acid is PHOSPHITE instead of phosphate. **Phoscare™** is intended to be used as an immediate, highly available source of Phosphorus and Potassium.

ADVANTAGES + BENEFITS

1. Aids in increasing cell division
2. Aids in flowering and fruiting
3. Will hasten crop maturation, thus counteracting the effect of excess Nitrogen
4. Promotes healthier root development
5. Helps increase strength of straw in cereal crops to prevent lodging
6. Promotes crop quality, especially of forages and of vegetables
7. Helps with internal resistance to certain diseases

Phoscare™ helps winter growth especially in lower than expected temperatures as well as inadequately heated green houses when crops are stunted.

Phoscare™ seems to not affect blooming of table grapes if sprayed properly on foliage rather than targeting the bunches.

COMPATIBILITY

Always run a compatibility test before spraying Phoscare with other chemicals.

Phoscare™ is compatible with almost all fungicides and insecticides.

Phoscare™ is **INCOMPATIBLE** with Trace Elements, Magnesium and Calcium foliar nutrients.

NEVER mix **Phoscare™** with Copper or any Copper containing products. Do not apply Copper one month before or one month after a **Phoscare™** application.

PLANT + ENVIRONMENTAL SAFETY

Phoscare™ is totally harmless to plants even when recommended rates are exceeded. Exceeding recommended rates is not advisable.

Phoscare™ is totally harmless to both humans and wildlife and is environmentally friendly.

APPLICATION GUIDELINES

CROP	TIME OF APPLICATION		RATE OF APPLICATION
APPLES AND PEARS	1st application	Early season	5 L/ha
	2nd application	As often as needed	2.5-5 L/ha
AVOCADO	1st application	As often as needed	2.5-5 L/ha
	2nd application	As often as needed	2.5-5 L/ha
CITRUS	1st application	Early season	5 L/ha
	2nd application	As often as needed	2.5-5 L/ha
GRAPES (TABLE GRAPES AND DRIED FRUIT)	1st application	At fruit set	3 L/ha
	2nd application	As often as needed	2.5-5 L/ha
	3rd application	As often as needed	2.5-5 L/ha
KIWIFRUIT	1st application	Early season	2.5-5 L/ha
	2nd application	As often as needed	2.5-5 L/ha
STRAWBERRIES AND ALL BERRIES	1st application	As often as needed	5 L/ha
	2nd application	As often as needed	3-5 L/ha
TOMATO, EGGPLANT AND CAPSICUM	Foliar	As often as needed	2.5-4 L/ha
	Soil	As often as needed	2.5-5 L/ha

It is important to always check with industry to ensure Phosphite is an allowed product, or timing for when it is allowed.

For information on application rates and timing for crops not listed on this brochure, please contact your local distributor or visit the RSF website at www.rd2.co.nz.

It is always advisable that a soil or leaf sample be taken before applying any fertilisers to best ascertain the levels of elements and the nutrient requirements of the crop.

WHY PHOSCARE™?

In natural ecosystems phosphorus is usually a life-limiting element due to its low availability. In low pH soils, phosphorus reacts with Iron and Aluminium to form low solubility Iron phosphate and Aluminium phosphate, which are relatively unavailable to the plants. In calcareous soils (higher pH), phosphorus reacts with Calcium to form Calcium phosphates which are either slightly soluble or insoluble in soil solutions and are also unavailable to plant uptake.

Large amounts of Phosphorus in soils are present in their organic form. However, these are not readily available to plants. These phosphates must be released by the action of microorganisms. The supply of Phosphorus from the soil is usually insufficient for normal growth of commercial plants. Growers endeavour to overcome this inefficiency of Phosphorus by applying more Phosphorus fertilisers. Because of soil conditions, soluble Phosphorus fertilisers applied to the soil are very rapidly changed to less soluble compounds which, with time, become less and less available to plants. The availability of Phosphorus is affected by the following factors:

1. Soil pH
2. Forms of phosphorus applied
3. Soil texture and other properties
4. Soil microorganisms
5. Organic matter content

Phoscare™ (0-28-25) will help reduce all the limitations of Phosphorus in the soil and as a foliar application by providing a high analysis, highly systemic form of Phosphorous and Potassium to crops without leaving any residues and without phytotoxicity.