

Potassium and phosphorus are essential nutrients for plant growth and health. Between them they provide plants with increased disease, frost and drought resistance, increased carbohydrate or starch production, and encourage root growth, vegetative growth, and fruit set. Potassium is also important for speeding up the healing of wounds caused by hail, wind and insects.

Orophite is a proprietary supplemental foliar feed containing a blend of phosphorus acid, soluble potash and anti-evaporant. It is intended to stimulate early growth, root development and plant health to improve overall disease resistance and increase yield.

The anti-evaporant is a highly efficient wetting and spreading agent that ensures effective distribution and absorption of nutrients (improved plant coverage practices improve overall performance; e.g. air assisted sprayers), reduces moisture build-up on foliage, enabling leaves to dry faster and leaving less time available for fungal spores to germinate. It also protects against pathogen penetration into damaged areas of the plant by drying and sealing sap-sucking insect punctures.

### Product analysis

phosphorus acid ( $P_2O_5$ )	5.4%
soluble potash ( $K_2O$ )	5.0%
boron	0.2%
~pH	6.9

Orophite is supplied in units of 5 litres.



Field and protected lettuce

It is well known that environmentally stressed plants are more susceptible to pest and disease attack. The regular use of Orophite has been proven to stimulate root growth, foliage development and crop production. It provides phosphite ions directly to the foliage to be used immediately by the plant and over time will be converted to phosphate ions. This proprietary blend of ingredients combine to stimulate nutrient uptake, growth, fruit set and allow for a strong vigorous plant structure.

Orophite is suitable for use on a wide range of crops including: vegetables, soft fruit, top fruit, nut trees, ornamental and nursery stock plants, protected crops, vines, and turf. Orophite leaves no residue so may be used right up to day of harvest on edible crops and is an ideal addition to Integrated Pest Management (IPM) programs.



Protected crops



Field vegetables



Soft and top fruit



Nursery and ornamentals

## Application rates

Orophite is easy to dilute and may be applied as a foliar spray by air or ground spray. It has a pleasant odour, disperses easily over foliage, and will not clog spray orifices. Use the appropriate volume of water for the application method and the crop.

Best results have been achieved by weekly applications of Orophite at the following rates:

Knapsack spraying	5-6 ml/ L
Field applications and crops under protection:	500ml – 600ml/100 litres
Water volume:	200 - 400 litres/hectare. Use lower rates for young plants and higher rates for crops with a dense canopy to ensure coverage.

To obtain the best results ensure Orophite is sprayed at the correct dose and that it moistens all leaves on both sides. Plants should be checked to ensure adequate coverage is being achieved; spray equipment should be adjusted if necessary.

- \* Orophite must not be applied to plants that are stressed by high temperature or lack of moisture.
- \* Do not apply or combine with any adjuvant or spreading agent. Orophite already contains a highly efficient wetting and spreading blend.
- \* Do not exceed the recommended rates of application and do not use more than 10 litres Orophite/hectare on a single application.
- \* Care must be taken to ensure the spray tank and hoses have been thoroughly cleaned before applying Orophite, and again after spraying.
- \* Avoid spraying Orophite in direct sunlight, early morning applications have been shown to be more effective than afternoon or evening applications.
- \* Avoid spraying flowers as some damage may occur. Leave a ten day interval before applying Orophite to crops which have previously been sprayed with copper or sulphur based products.

Application precaution: as with all acid materials, user should exercise precaution to avoid potential foliar burning. Use caution if applying this product in combination with other materials since mixing could result in a potentially hazardous reaction caused by product incompatibilities. A compatibility test is recommended before tank mixing with other products. The pH of any final spray solution should be checked and an appropriate amount of the solution applied to a small area of the intended crop to ensure plant compatibility prior to the application.

USER ASSUMES FULL RESPONSIBILITY TO ENSURE PRODUCT, EQUIPMENT, AND PLANT COMPATIBILITIES.

## General efficacy data

COMPOSITION/INGREDIENTS	Phosphorus acid, soluble potash, boron, anti-evaporant agent
HARVEST INTERVAL	0 days
CROP RESTRICTIONS	None
CROP CLEARANCE/FIELD USE	Supplemental foliar feed
PRODUCT EFFICACY	Effective as part of a protective program, used regularly through stressful plant periods
COMPATIBILITY WITH CHEMICALS	Do not apply with other adjuvants. Use caution when mixing with other products
FREQUENCY OF USE	Every 7-10 days
METHODS OF USE	Foliar spray
STORAGE REQUIREMENTS	Cool, but frost free, out of direct sunlight
YEAR RELEASED	2003
TRIALS DATA	2003/2004 on lettuce and grapes
COUNTRY OF ORIGIN	South Africa

Warranty: Since weather, crops, soil and other conditions may vary, the ORO AGRI COMPANIES, and/or Plant Solutions Ltd, make no warranty of any kind, express or implied, concerning this product. The user assumes all risk of use and handling whether or not in accordance with directions or suggestions

