



OROMATE K26

BIOSTIMULANT

EUROPE, RUSSIA, MIDDLE EAST & NORTH AFRICA



ORO AGRI
A member of the Omnia Group

INTRODUCTION

OROMATE K26

GENERAL INFORMATION AND KEY BENEFITS

OROMATE K26™ is a highly concentrated source of humic acids which is sourced and produced in Australia. Additionally it contains fulvic acids and Potassium and it is rich in organic carbon and mineral substances essential to plant growth.

OROMATE K26 holds onto a wide range of nutrients from applied fertilisers in the soil until plants are ready to use them. **OROMATE K26** also helps unlock bound nutrients in the soil, making them available to the plants. **OROMATE K26** present in the soil holds a wide range of micro-nutrients and macro-nutrients around plant roots.

This provides all the essential nutrients for quick root uptake and optimum plant growth. **OROMATE K26** also improves cation exchange capacity (CEC) and the water holding ability of the soil.

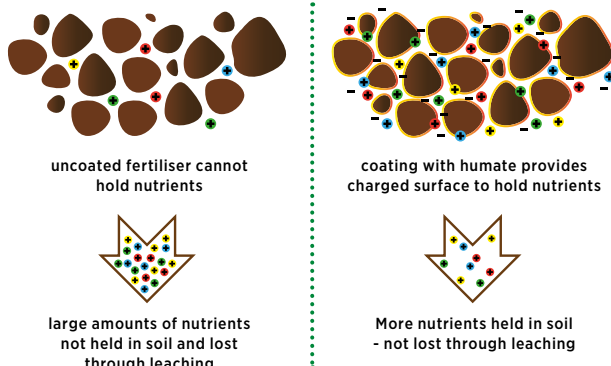
OROMATE K26 enables farmers and growers to achieve greater and better-quality crop production through a more effective use of applied fertilisers and maintaining long-term soil fertility. It is suitable for application in irrigation systems.

Versatility of OROMATE K26

OROMATE K26 is suitable for application in irrigation systems for most crops. There are proven results in many crops, in many countries in cooperation with institutes around the world. For best results apply **OROMATE K26** before fertiliser application and before critical stages of growth of your crop.

MULTIPLE MODES OF ACTION

What **OROMATE K26** does for you:




Benefits of a high Cation Exchange Capacity (CEC)

Humic acids are trapped in cracks and pores and adhere to the surfaces of sand particles. They hold onto many important nutrients which would have been otherwise lost to leaching.

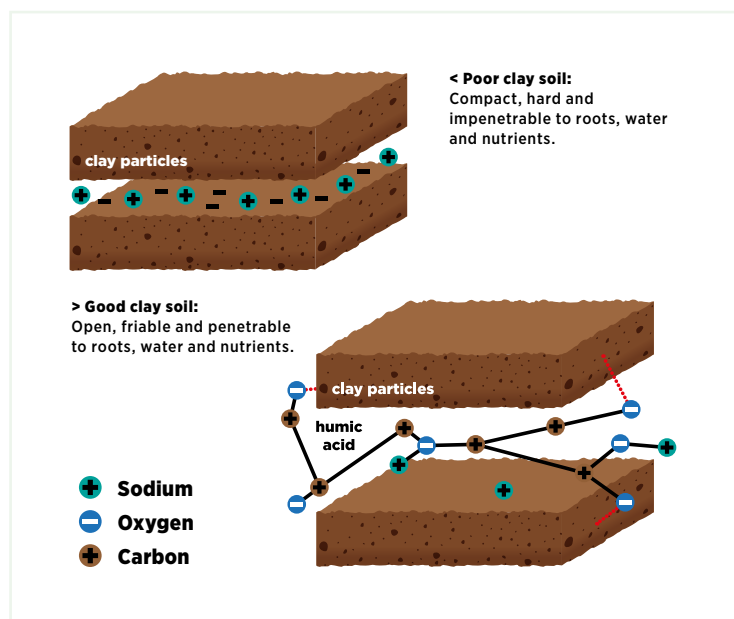
CHEMICAL

→ **OROMATE K26** reduces losses of nutrients because of leaching, due to its high cation exchange capacity (CEC), especially in the early season and on sandy soils. **OROMATE K26** provides charged surfaces for nutrient retention. Water-soluble nutrients are better held in the soil and they remain available to the plants for a longer period. This makes the applied nutrients more plant available and therefore increases their efficiency and results in increased yields and better quality. Moreover, it holds more water in the soil - important during water stress conditions.

 Ca, Mg, K, Zn, Cu, Mn, Fe, B

PHYSICAL

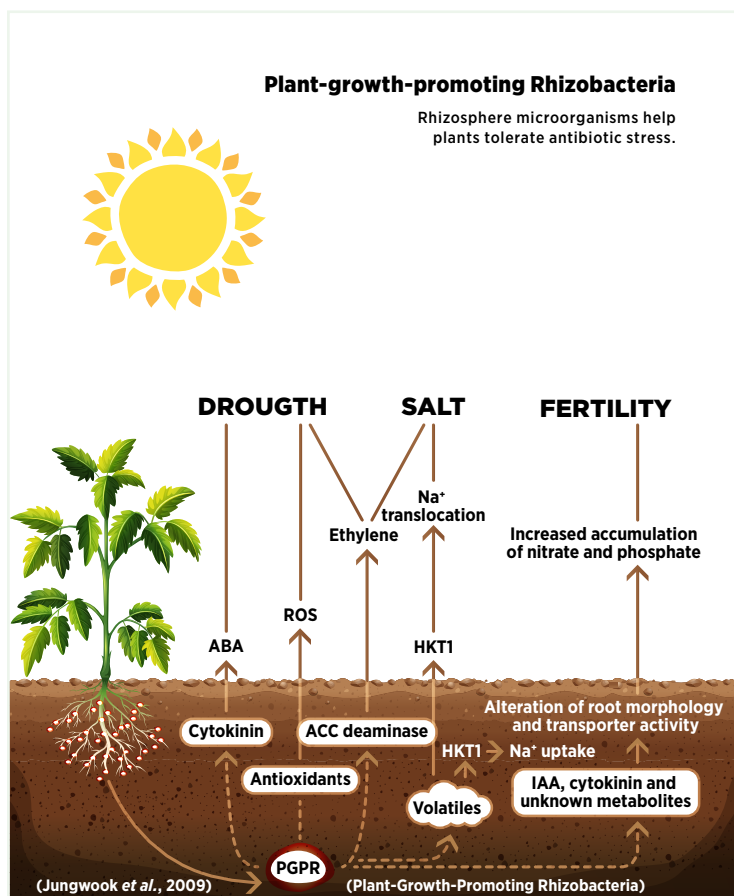
→ **OROMATE K26** promotes development of good soil structure, improves the moisture holding capacity of the soil and increases the wettability of the soil. Moreover, it reduces soil binding in clay soils and improves the aeration and porosity of the soil. As a result, soil becomes more friable and crumbly for easier working and plant root penetration.



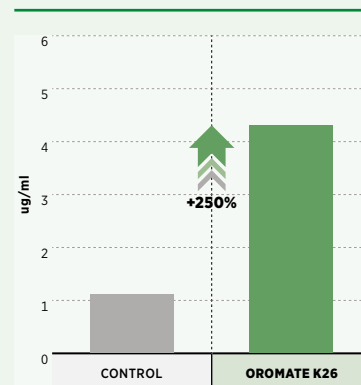
OROMATE K26 rejuvenates heavy clays which are compact and impenetrable to water and nutrients. When soils dry out, water is removed from between the clay particles, causing them to move very close together, shrink in volume and form cracks in the ground. This cracking in the ground is a common feature in clay soils which are poor or devoid of organic matter. Humic acids in nature interact with the clay particles and prevent them from sticking closely together when they dry out in the summer. The more open clay structure will be able to retain more water for plant use.

BIOLOGICAL

→ **OROMATE K26** provides plants with organic material, enhances seed germination, stimulates root growth and improves viability. It stimulates beneficial microbial activity in the soil and provides better resistance to stress and abiotic conditions for your plants.



Active fungal growth response
(24 hours treatment)



Humic acids promote beneficial soil microbial growth by providing active carbon for their energy and biomass requirements. Recent studies have shown that applications of water containing 150 ppm of **OROMATE K26** stimulated significant growth of both the active fungal and bacterial population in a solution of compost tea.



QUESTIONS+ ANSWERS

→ WHEN IS THE BEST TIME TO APPLY OROMATE K26?

Apply throughout the growing season to improve uptake of nutrients by plants and to promote microbial activity. If possible, apply **OROMATE K26** shortly before or after fertiliser applications.

→ HOW MUCH OROMATE K26 DO I NEED AND HOW DO I APPLY IN THE FIELD?

Between 10 to 20 litres per hectare per growing season is effective. If possible, four applications of 5 litres / hectare each spread over the growing season is better than one application of 20 litres / hectare. Dilute **OROMATE K26** with water before application. Band application is more effective than broadcast application.

→ IS THERE A PARTICULAR SOIL TYPE OR CROP THAT WILL BENEFIT MOST FROM APPLICATIONS OF OROMATE K26?

OROMATE K26 is good for all types of crops and soils, from sandy soils to heavy clays. It improves nutrient and water retention, leading to more vigorous plant growth and, in the longer term, better soil structures.

→ CAN I REDUCE MY FERTILISER APPLICATIONS IF I USE OROMATE K26?

It is better to keep the same level of fertiliser and aim for better plant growth and greater crop yield. Reducing fertilisers will not help sustain the increased plant growth needed to get greater crop yield.

→ HOW QUICKLY CAN I EXPECT TO SEE BENEFITS FROM THE USE OF OROMATE K26?

Better nutrient uptake and plant growth have been observed within a few weeks and will continue through the growing season with regular applications of **OROMATE K26**. Effects on physical properties of soils will generally take longer.

→ IS OROMATE K26 COMPATIBLE WITH OTHER PRODUCTS?

OROMATE K26 is best applied on its own where possible to minimize risk of incompatibility. Due to the high reactivity of **OROMATE K26** and many agricultural chemicals (insecticides, herbicides, fungicides and fertilisers), adverse reactions can occur, particularly when the solution pH is acidic or contains calcium or phosphate.

OROMATE K26 is compatible with UAN solutions. When mixing with other chemistry, test for compatibility with a small quantity prior to application.





APPLICATION

Apply 5 - 20 litres of **OROMATE K26** per hectare. For better results apply **OROMATE K26** before or right after the application of fertilisers in order to minimize possible losses from leaching and for better efficacy of applied fertilisers. For best results, use in conjunction with organic or mineral fertilisers.

- It can be mixed with other liquid fertilisers. When mixing with other liquid fertilisers or herbicides, test for compatibility with a small quantity in a jar.
- It can be mixed with UAN, after diluting **OROMATE K26** into water first, to reduce scorching.
- If you apply **OROMATE K26** by foliar application black spots may appear. Leaves and fruit need washing with water after foliar application of **OROMATE K26**.
- Mixing **OROMATE K26** with acids or low pH products or clear soluble fertilisers may cause precipitation of humic acid.



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