

READ THE LABEL BEFORE USE.

# ALEXIN®

## A LIQUID ORGANIC NUTRIENT COMPLEX CONTAINING SALICYLIC ACID

## PRODUCT POSITIONING

Given the challenge of unpredictable climatic conditions, crops can be severely affected and the financial implications can often be disastrous. AECI® Plant Health has come up with a solution to strengthen the immune response of the plant and manage plant stress thereby limiting crop losses and optimizing yields.

Alexin® is a natural nutrition complex that contains salicylic acid. Salicylic acid is a plant hormone that increases the natural resistance of the plant by activating its own defence system, called the "Systemic Acquired Resistance" (SAR).

## WHAT IS SAR?

Systemic Acquired Resistance (SAR) is a process during which phytoalexins are activated in the plant. Alexin® contains carbohydrates to ensure the nutritional elements are in the correct oxidative state. These carbohydrates provide energy to the plant for protection against biotic factors (like pests and diseases) as well as abiotic factors (like drought, frost, and hail). Although the resistance of the plant is activated, diseases are not directly controlled with Alexin. When a crop experiences phytotoxicity, Alexin® can assist the crop to recover faster.

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## WHAT MAKES ALEXIN® UNIQUE?

Alexin® also contains Calcium (Ca), Boron (B), Magnesium (Mg), and Potassium (K). Calcium is very important for cell division and controls both plant metabolism and development.

Calcium reinforces the cell wall structure and Boron ensures that Calcium adheres to cell walls. Boron also promotes the uptake and movement of Potassium, Magnesium and Calcium in the plant, as well as the movement of sugar. Magnesium forms the core of the chlorophyll molecule and promotes healthy green growth and photosynthesis. Potassium activates enzymes in the plant and increases sugar levels. Higher sugar levels increase plant energy (Brix), which assist in improving resistance.

A key function of Potassium is the regulation of the opening and closing of stomata, thereby influencing transpiration activity.

## HOW TO APPLY ALEXIN® ?

Alexin® can be applied to any crop before or after the stress event. When it's applied preventatively in a spray programme, it will improve the communication between the plant and roots, thereby increasing the energy of the plant and activates resistance. Alexin® is crucial in optimising the reserves of the plant and alleviating stress during the high temperatures of November until January in South Africa.

Potassium Polyphosphate (Rappid® K) or Ammonium Polyphosphate (Rappid®) can also be applied together with Alexin® to increase energy levels even further. Alexin® can potentially improve crop yields because of the carbohydrate technology that provide more energy.

Nutritional elements are taken up more easily because they are carbohydrate complexes thus improving movement through the plant as they have no net charge. The product activates the immune response of the plant and enables the plant to recover faster after stress conditions. The potential increased crop quality and yield equals higher profits for the farmer.





**Alexin® Reg. No. M510, Act No. 36 of 1947**

**Rappid®K Reg. No. K9566, Act No. 36 of 1947**
**Rappid® Reg. No. K9404, Act No. 36 of 1947**
**Not classified according to GHS.**

**Composition:**

| | | | |
|---|---|---|---|
| Calcium | (Ca) | 24.1 g/kg | (30.12 g/ℓ) |
| Magnesium | (Mg) | 7.0 g/kg | (8.75 g/ℓ) |
| Potassium | (K) | 45.0 g/kg | (56.25 g/ℓ) |
| Boron | (B) | 2.4 g/kg | (3.00g/ℓ) |

(Contains 2.5% salicylic acid)
**SG:** 1.25 @ 20°C

**GHS Hazard Statements:**
- Causes serious eye irritation.
- May damage fertility.
- May damage the unborn child.



**DANGER**

**Registration Holder:**
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